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OM nucleic - nucleic search, using sw model

Run on: January 21, 2006, 21:48:11 ; Search time 7519 Seconds
(without alignments)
10742.724 Million cell updates/sec

Title: US-09-937-059-57
Perfect score: 1421
Sequence: 1 gaaccggaagaatgaacgct.....ctttttttttttttttt 1421

Scoring table:
IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenBml:*
1: gb_ba:*
2: gb_in:*
3: gb_env:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
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8: gb_pr:*
9: gb_ro:*
10: gb_str:*
11: gb_sy:*
12: gb_un:*
13: gb_vi:*
14: gb_ncg:*
15: gb_pl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1413	99.4	1441	6	AX035346 Sequence
2	1010.6	71.1	1740	6	BX537581 Homo sapi
3	741	52.1	741	6	CQ727948 Sequence
4	691.4	48.7	1354	9	BC031111 Mus muscu
5	626.2	44.1	5851	4	AF547266 Sus scro
6	453	31.9	498	6	AX035348 Sequence
7	413.4	29.1	166937	14	AC012255 Homo sapi
8	413.4	29.1	181312	8	AC091117 Homo sapi
9	411.8	29.0	156534	14	AC009700 Homo sapi
10	411.8	29.0	171444	14	AC087790 Homo sapi
11	391	27.5	2684	6	AX714511 Sequence
12	391	27.5	2684	8	AK056896 Homo sapi
13	391	27.5	156534	14	AC009700 Homo sapi
14	356.4	25.1	1636	6	AX405919 Sequence
15	356.4	25.1	1923	8	BC029819 Homo sapi
16	354.8	25.0	1029	6	ARS64559 Sequence
17	354.8	25.0	2133	6	ARS64558 Sequence
18	348.8	24.5	1521	9	BC019755 Mus muscu

19	299.4	21.1	2439	8	AK027187 Homo sapi
20	296	20.8	864	6	CQ727947 Sequence
21	245.8	17.3	1706	8	BC020841 Homo sapi
22	245.8	17.3	2684	6	AX714511 Sequence
23	245.8	17.3	2684	6	AK056896 Homo sapi
24	216	15.2	217	8	HS183H12F
25	199.8	14.1	218	8	HS183A12R
26	190.4	13.4	703	10	BV621223
27	190	13.4	277	10	BV188008
28	180.8	12.7	1338	5	BC077555 Xenopus
29	167.8	11.8	229583	9	AL844566 Mouse DNA
30	166	11.7	1923	8	BC029819 Homo sapi
31	165.8	11.7	231868	14	AC118124 Rattus no
32	159.4	11.2	166937	14	AC012255 Homo sapi
33	159.4	11.2	171444	14	AC087790 Homo sapi
34	159.4	11.2	181312	8	AC091117 Homo sapi
35	154.2	10.9	231868	14	AC118124 Rattus no
36	147	10.3	229583	9	AL844566 Mouse DNA
37	123.2	8.7	110250	14	AC138220 Mus muscu
38	121.6	8.6	55061	14	AC091597 Mus muscu
39	101	7.1	110250	14	AC138220 Mus muscu
40	88.2	6.2	110250	14	AC152183_2
41	65.6	4.6	1602	6	CQ601302 Sequence
42	65.6	4.6	1808	6	CQ581145 Sequence
43	65.6	4.6	2207	2	AY061346 Drosophila
44	65.6	4.6	3020	2	BT011438 Drosophila
45	63.4	4.5	125020	8	AF429315 Homo sapi

ALIGNMENTS

RESULT 1	AX035346	1441 bp	DNA	linear	PAT 15-NOV-2000
LOCUS	AX035346	Sequence 1 from Patent WO0053748.			
DEFINITION	AX035346				
ACCESSION	AX035346.1	GI:1191064			
VERSION					
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Bruck,C.E., Vinals,Y.D., Coche,T. and Casarett,J.P.				
AUTHORS	Novel compounds				
TITLE	Patent: WO 0053748-A 1 14-SEP-2000;				
JOURNAL	BRUCK CLAUDINE ELVIRE MARIE (BE) ; SMITHKLINE BEECHAM BIOLOG (BE) ; VINALS Y DE BASSOLS CARLOTTA (BE) ; COCHE THIERRY (BE) ; CASARETT JEROME POL (BE)				
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	/db_xref="taxon:9606"				
Query Match	99.4%; Score 1413; DB 6; Length 1441;				
Best Local Similarity	100.0%; Pred. No. 5.9e-237;				
Matches 1413; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
Qy	9	AAAGTACCGGCTACAGCACTGAGAAATTAATTCCTTCCTTAACGAGAGTGCA	68		
Db	1	AAAGTACCGGCTACAGCACTGAGAAATTAATTCCTTCCTTAACGAGAGTGCA	60		
Qy	69	GTACCAACCCCAAGAGCGTTGAGACAGCCCACTTCAGCTTCCTTAACGAGAGTGCA	128		
Db	61	GTACCAACCCCAAGAGCGTTGAGACAGCCCACTTCAGCTTCCTTAACGAGAGTGCA	120		
Qy	129	GAAGTACAGCTTCAAGAGCGCTGCTCCAGGCTTTGACGAAGAGAGCGCAAGAC	188		
Db	121	GAAGTACAGCTTCAAGAGCGCTGCTCCAGGCTTTGACGAAGAGAGCGCAAGAC	180		

[illegible]

ATTNORS	Venter,C.J., Adams,M.C., Li,P.W. and Myers,B.W.
TITLE	Kites, such as nucleic acid arrays, comprising a majority of humanexons or transcripits, for detecting expression and other uses thereof
JOURNAL	Patent: WO 02068579-A 13882 06-SEP-2002; PB Corporation (NY) (US)
FEATURES	Location/Qualifiers
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	/mol_type="unassigned DNA"
	/db_xref="taxon:9606"
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Query Match	52.1%; Score 741; DB 6; Length 741;
Best Local Similarity	100.0%; Pred. No. 1.6e-119; Indels 0; Gaps 0;
Matches 741; Conservative	0; Mismatches 0;
Oy	485 TGCAGATGGTCGTGSGTACAGTGAAACAACAACATCTCAAAAGCCTTCAGCGAGC 544
Db	1 TGCGAATGGTTCTGGGTACAGTGAAACAACAACATCTCAAAAGCCTTCAGCGAGC 60
Oy	545 GCAGCTTAACAGCCCGTGTGGTCTGCTGTGGGCTTGAGAGGACTTAATATTACCTCAC 604
Db	61 GCAGCTTAACAGCCCGTGTGGTCTGCTGTGGGCTTGAGAGGACTTAATATTACCTCAC 120
Oy	605 AGGGAACCCAGTGCATCAGCTGAAACGAGACCATTGATTAACAAGAAGATTACACTGGCG 664
Db	121 AGGGAACCCAGTGCATCAGCTGAAACGAGACCATTGATTAACAAGAAGATTACACTGGCG 180
Oy	665 TTGGAAGAAGATTAGCCCGGAGTAGTACGCGAAACGCACTGGAGAAAGGAGCTGCCGAGCC 724
Db	181 TCTAAGAAGATTATACGCGGAGTAGTACGCGAAACGCACTGGAGAAAGGAGCTGCCGAGCC 240
Oy	725 AGTGTCTAACCTGCGGAGAAATTACACAGAGTAGGCCCTTGCAGGCTGTACACACAGTA 784
Db	241 AGTGTCTAACCTGCGGAGAAATTACACAGAGTAGGCCCTTGCAGGCTGTACACACAGTA 300
Oy	785 CCACCTGACCGGAGACATAACGCTTGGGCAAGCTATGGGTGGCGTTTCTTGGCTTCT 844
Db	301 CCACCTGACCGGAGACATAACGCTTGGGCAAGCTATGGGTGGCGTTTCTTGGCTTCT 360
Oy	845 CTCCAAGTGTGTCTTCCAAGCGGCGCGGCTCTTACGAGAGGCGTGGACATGTCAGCAC 904
Db	361 CTCCAAGTGTGTCTTCCAAGCGGCGCGGCTCTTACGAGAGGCGTGGACATGTCAGCAC 420
Oy	905 CGAGAGCCTTGCGGCTCTTGGGAGTCTTTCGCTTGGGCTCATCTTACGCTGCGGCTTG 964
Db	421 CGAGAGCCTTGCGGCTCTTGGGAGTCTTTCGCTTGGGCTCATCTTACGCTGCGGCTTG 480
Oy	965 CCGGCTCGGCTAGGCTCTTCGCGGCTCAACAATAAGTACGCGCGCGCTTCTGGGTAC 1024
Db	481 CCGGCTCGGCTAGGCTCTTCGCGGCTCAACAATAAGTACGCGCGCGCTTCTGGGTAC 540
Oy	1025 GCTGGCAACCGGCGCTCTTGGGCTCTTTCCTGGAGGGGCGGTGGTAGTCCAGTAGT 1084
Db	541 GCTGGCAACCGGCGCTCTTGGGCTCTTTCCTGGAGGGGCGGTGGTAGTCCAGTAGT 600
Oy	1085 TCAGGCGGAGCCTCTTGGCAACCTTCTTGGAGCAAAGCGCAAGGACTTGACACGAGAG 1144
Db	601 TCAGGCGGAGCCTCTTGGCAACCTTCTTGGAGCAAAGCGCAAGGACTTGACACGAGAG 660
Oy	1145 AGGGGGCTCACTCTTATCTTGGGCAACCACTGCAACAAGAGCGCTTCTCCAGACTT 1204
Db	661 AGGGGGCTCACTCTTATCTTGGGCAACCACTGCAACAAGAGCGCGCTTCTCCAGACTT 720
Oy	1205 AAAATGTATACCACTAACCT 1225
Db	721 AAAATGTATACCACTAACCT 741
RESULT 4	
BC031111	BC031111 1354 bp mRNA linear ROD 06-JUL--2005

DEFINITION
Mus musculus RIKEN CDNA 9030623N16 gene, mRNA (CDNA clone MGC:35715 IMAGE:4989815), complete cds.

ACCESSION
BC031111
BC031111.1 GI:21411407

VERSION

KEYWORDS
MGC.

SOURCE
Mus musculus
(house mouse)

ORGANISM
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Mus.

REFERENCE
1 (bases 1 to 1354)
Strausberg, R.L., Faingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, P.S., Wagner, L., Shennan, C.M., Schuler, G.D.,
Altshuler, S.F., Zeeberg, B., Bluetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Heist, F.,
Diatchenko, L., Marusik, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldi, M.P., Casavant, T.L.,
Schreier, T.E., Brownstein, M.J., Udell, T.B., Yoshiyuki, S.,
Carninci, P., Prange, C., Raja, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullaly, S.J., Bosak, S.A., McEwan, P.J.,
McGernan, K.T., Malek, J.A., Guaratene, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulsk, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Ketteman, M., Madan, A., Rodriguez, S.,
Sanchirico, A., Whiting, M., Madan, A., Young, A.C., Shewchenko, Y.,
Bonfield, W.G., Blakeley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schultz, U., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Small, D.E.,
Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Mammalian Gene Collection Program Team
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
12477932

JOURNAL
2 (bases 1 to 1354)

PUBMED

REFERENCE

AUTHORS

CONSRMT
TITLE
NIH MGC Project
Direct Submission
Submitted (03-JUN-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Bethesda, MD 20892-2590, USA

JOURNAL
NIH-MGC Project URL: <http://mgc.ncl.nih.gov>
Contact: MGC help desk
Email: cga@ncl.nih.gov

REMARK
Tissue Procurement: Jeffrey E. Green, M.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILMN)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome
Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-shgc.stanford.edu>
Contact: (Dickson, Mark) mcdgpxll@stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
R. M.

COMMENT

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/ILMN at: <http://image.llnl.gov>
Series: IRAX Plates: 58 Row: 9 Column: 17
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi:1385245

FEATURES
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gene

[illegible]

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Qy      1130 CT---GAGCGCAGAGAGAGAGGGGCTCACTCTTATCTCTGGGAGCCCAATGCAAGCA 1186
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Qy      1187 GCGCGCTCTCCGACACTTAATATGATCACCACCTAACCTGTGAGGGGAGCCCAATCTGA 1246
Db      1052 GTTGAAGAGCTCGACACTTA---TATTACCACTCTCTGTGAAATAAATGACTCCGA 1108
Qy      1247 CTCCTTCCCGCGCTTGGGACATGCGCAGCCGGGAGAGTCCCGCAGGCTTG-GGCCA 1305
Db      1109 TTTCTACCCCTCTTGGGAGCCCACTAGACCTGAAGACTGTATTAGAGCGCGTGCAGGA 1168
Qy      1306 GAGAGCTCCAGAGAGGCGACTGAGCGCTGTGCGCGGAGCCCTCGACATCCGCAAGCA 1365
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Qy      1366 CC-----AGGGAAGTCTCTCGGGGAGATCTGTAAATTAACCTTTTCTTTGT 1416
Db      1229 CTTTGTCTAGAGAAATGAAATTTCTCAGAGAACTGTAAATTAACCTTTTCTTTT 1288
Qy      1417 TTTT 1421
Db      1289 TTTT 1293

RESULT 5
AF547266 5851 bp mRNA linear MAM 03-Apr-2003
LOCUS     Sus scrofa dual oxidase 1 (Duox1) mRNA, complete cds.
DEFINITION
ACCESSION AF547266
VERSION    AF547266.1 GI:23664372
KEYWORDS
SOURCE
ORGANISM  Sus scrofa (pig)
          Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suidae;
          Sus.
REFERENCE 1 (bases 1 to 5851)
AUTHORS   Morand,S., Chazaoui,M., Kaniewski,J., Deme,D., Ohayon,R.,
          Noel-Hudson,M.S., Virion,A. and Dupuy,C.
TITLE      Effect of iodide on nicotinamide adenine dinucleotide phosphate
          oxidase activity and Duox2 protein expression in isolated porcine
          thyroid follicles
JOURNAL    Endocrinology 144 (4), 1241-1248 (2003)
PUBMED     12639906
AUTHORS     2 (bases 1 to 5851)
          Kaniewski,J., Morand,S., Noel-Hudson,M.-S., Ohayon,R., Virion,A.
          and Dupuy,C.
TITLE      Direct Submission
JOURNAL    Submitted (13-SEP-2002) Unite 486, INSERM University of Paris-Sud,
          5 rue JB Clement, Chateau-Malabry 92296, France
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location/Qualifiers
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gene
CDS

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ORIGIN
Query Match 44.1%; Score 626.2; DB 4; Length 5851;
Best Local Similarity 81.8%; Pred. No. 1,4e-99;
Matches 735; Conservative 0; Mismatches 163; Indels 1; Gaps 1;

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Db      250 GCGAAGTTAGCAGAAATCAATCTTCAAGAGCTTCAGTGTGAGCAAGTGTCCAGCCACC 309
Qy      562 TCGGTCTGCTGTGGGCTGAGGGGCTTAATATTACACTCAGGAGCCCACTGATGCATC 621
Db      310 TCGGTCTGCAAGTGTGGGCTGAGGGGCTGAATATCACTCAGGAGAAATCCGTTACAGC 369
Qy      622 AGCTGAACGAGACCATTTGATCAACAGAGAGTTCACTGCGCTGTGAAGAGAAATTAACG 681
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Qy      682 CCGCGAGTACGCGAGACACTGAGAAAGGGGCTGCGGAGCCAGTCTTACTCTGCGG 741
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Qy      742 AGAAGTTACACGAGTAGGCTTGGCGCTGTACACACAGTACCACTGCGGAGCACT 801
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QY 922 TCGGGGCTTCTGCGCTCTGCTCTCTTCTTACGCTGCTGCTCTGCTCTGCTCTGCTCTGCTCT 981
DB 669 TCTGCTCTGCGCTCTGCTCTCTTCTTCTGCTGCTGCTCTCTTCTGCTGCTGCTCTGCTCTGCT 728
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QY 1102 GCACCGCTCTTCTGAGCAAGCGCGCAAGGCTGACGAGCAAGAGAGGCGGCTCTCTCTCT 1160
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RESULT 6
AX035348 498 bp DNA linear PAT 15-NOV-2000
LOCUS Sequence 3 from Patent WO0053748.
DEFINITION AX035348
ACCESSION AX035348
VERSION AX035348.1 GI:11191065
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
          Homidae; Homo.
REFERENCE 1
  Bruck,C.E., Vinals,Y.D., Coche,T. and Casasat,J.P.
  Novel compounds
  Patent: WO 0053748-A 3 14-SEP-2000;
  BRUCK CLAUDINE ELVIRE MARIE (BE) ; SMITHKLINE BEECHAM BIOLOG (BE) ;
  VINALS Y DE BASSOLS CARLOTA (BE) ; COCHE THIERRY (BE) ; CASSART
  JEAN POL (BE)
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Query Match 31.9%; Score 453; DB 6; Length 498;
Best Local Similarity 99.6%; Pred. No. 3.6e-69;
Matches 475; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

QY 947 CTCTAGCGTGCCTGCTGCGCGCT-CGGCTAGGCTCTCTCGGCTCAGACCTCTGAGTACG 1005
DB 1 CTCTAGCGTGCCTGCTGCGCGCTCTCGGCTCAGGCTCTCTCGGCTCAGACCTCTGAGTACG 60
QY 1006 -GGCGCGCTTCTGAGTACGCTGAGCAACGCGGCTCTGCTCTCTCTCTGAGAGGCGC 1064
DB 61 AGCGCGCGCTTCTGAGTACGCTGAGCAACGCGGCTCTGCTCTCTCTCTCTGAGAGGCGC 120
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DB 121 GTGTGAGTCTCAGATGTTGGCGCCAGCGCTCTTCTGCAACCTTCTGAGCAAAAGCGCC 180
QY 1125 AAGGACTGACGACGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1184
DB 181 AAGGACTGACGACGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
QY 1185 CAGGCGCGCTCTCCAGACTTAATAATGATACCACTAACTGTGAGGAGGAGGCCAATCTG 1244

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DB 241 CAGCGCGCTCTCCCAACTTAATAATGATACCACTAACTGTGAGGAGGAGGCCAATCTG 300
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DB 301 GACTCTCTCCCGCGCTTGGAGCATGCGAGGCGGAGAGAGTGGCCGACAGCGCTTGGGCG 360
QY 1305 AAGAGGCTTCCAGAGAGGAGCACTGAGCGCTGTGCGCGAGAGGCTCTGAGCATCCGAGGC 1364
DB 361 AAGAGGCTTCCAGAGAGGAGCACTGAGCGCTGTGCGCGAGAGGCTCTGAGCATCCGAGGC 420
QY 1365 ACCAGGAAAGTCTCTGCGGCGAGATCTGTAATAAATCTTTTCTTTTCTTTTCTTTT 1421
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RESULT 7
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LOCUS Homo sapiens chromosome 15 clone RP11-109D20 map 15, WORKING DRAFT
DEFINITION AC012255
ACCESSION AC012255
VERSION AC012255.4 GI:7684440
KEYWORDS HTG; HTGS PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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          Homidae; Homo.
REFERENCE 1
  Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M.,
  Baldwin,J., Barina,N., Beckwith,R., Boguski,M., Bouckgeater,B.,
  Brown,A., Casale,A., Cawley,A., Collins,S., Collins,A., Collins,A.,
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  Peterson,K., Pollara,V., Riley,R., Roy,A., Santos,R., Severy,P.,
  Stange-Thomann,N., Stojanovic,N., Sudramanian,A., Talamas,U.,
  Tesfaye,S., Tittel,A., Vassiliev,H., Vo,A., Wheeler,J., Wu,X.,
  Wyman,D., Ye,W.J., Zimmer,A. and Zody,M.
  Direct Submission
  Submitted (21-OCT-1999) Whitehead Institute/MIT Center for Genome
  Research, 320 Charles Street, Cambridge, MA 02141, USA
  On May 3, 2000 this sequence version replaced gi:7209928.
  All repeats were identified using RepeatMasker:
  Smit, A.P.A. & Green, P. (1996-1997)
  http://ftp.genome.washington.edu/RM/RepeatMasker.html

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TITLE
JOURNAL
COMMENT
Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
-----
Project Information
Center project name: L3737
Center clone name: 109 D 20
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Summary Statistics
Sequencing vector: M13; M7815; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 153800 bases at least Q40
Consensus quality: 160606 bases at least Q30
Consensus quality: 163275 bases at least Q20
Insert size: 164837; sum-of-ctrls
Quality coverage: 4.0 in Q20 bases; sum-of-ctrls

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* NOTE: This is a 'working draft' sequence. It currently
* consists of 22 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of 'N', but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will

1	2087:	contig of 2087 bp	in	Length
2088	2187:	gap of 100 bp	in	Length
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3627	3726:	gap of 100 bp	in	Length
3727	4845:	contig of 1119 bp	in	Length
4846	4945:	gap of 100 bp	in	Length
4946	6702:	contig of 1757 bp	in	Length
6703	6802:	gap of 100 bp	in	Length
6803	8326:	contig of 1524 bp	in	Length
8327	8426:	gap of 100 bp	in	Length
8427	10499:	contig of 2068 bp	in	Length
10499	10594:	gap of 100 bp	in	Length
10595	13215:	contig of 2621 bp	in	Length
13216	13315:	gap of 100 bp	in	Length
13316	16451:	contig of 3136 bp	in	Length
16452	16541:	gap of 100 bp	in	Length
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51830	60123:	contig of 8294 bp	in	Length
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73523	73623:	gap of 100 bp	in	Length
73633	87433:	contig of 13601 bp	in	Length
87434	87533:	gap of 100 bp	in	Length
87534	101708:	contig of 14175 bp	in	Length
101709	101808:	gap of 100 bp	in	Length
101809	121199:	contig of 19385 bp	in	Length
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FEATURES

Location/Qualifiers

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Best Local Similarity 98.6%; Pred. No. 1,2e-62;
Matches 417; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

TITLE JOURNAL

COMMENT

Testaye, S., Torruella-Miller, I., Vassiliev, H., Vo, A., Wagner, A., Wheeler, J., Wu, X., Wyman, D., Ye, W. J. and Zody, W.
Direct Submission
Submitted (28-AUG-1999) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
On Apr 20, 2000 this sequence version replaced gt:6056272.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: MIBR

Web site: <http://www-seq.wi.mit.edu>

Contact: sequence_submissions@genome.wi.mit.edu

Project Information

Center project name: 163.P.10

Center clone name: 163.P.10

Summary Statistics

Sequencing vector: M13; M7815; 100% of reads

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.960731

Consensus quality: 108837 bases at least Q40

Consensus quality: 145227 bases at least Q20

Insert size: 157000; agarose-fp

Insert size: 155134; sum-of-ctnigs

Quality coverage: 3.2 in Q20 bases; agarose-fp

Quality coverage: 3.3 in Q20 bases; sum-of-ctnigs

NOTE: This is a 'working draft' sequence. It currently

consists of 15 contigs. The true order of the pieces

is not known and their order in this sequence record is

arbitrary. Gaps between the contigs are represented as

runs of N, but the exact sizes of the gaps are unknown.

This record will be updated with the finished sequence

as soon as it is available and the accession number will

be preserved.

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1270 1269: gap of 100 bp

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3336 3435: gap of 100 bp

3436 3436: contig of 2263 bp in length

5699 5798: gap of 100 bp

5799 9216: contig of 3418 bp in length

9217 9316: gap of 100 bp

9317 15633: contig of 6317 bp in length

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21747 21846: gap of 100 bp

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120902 120902: contig of 35633 bp in length.

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ACCESSION AC009700.4 GI:7622346
VERSION HTG; HTGS_PHASE1; HTGS_DRAFT.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1 (bases 1 to 156534)
Birtten,B., Linton,L., Nusbaum,C. and Lander,E.
Homo sapiens chromosome 15, clone RP11-163P10
Unpublished
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Birtten,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M.,
Baker,J., Baldwin,J., Barna,N., Beckert,R., Benn,J., Brown,A.,
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Best Local Similarity 98.3%; Pred. No. 2.4e-62;
Matches 416; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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DB 7096 CTCTGTGGTACCAACCCCAAGCGTTGAGAGAGCCCACTTCACGCTTCTTAACGGA 7037
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DB 7036 GAGGTGACGAGACTCAGACTTACACGAGCCCACTGCTCCAGCGCTTACGCAAGAGAG 6977
QY 181 CCAAGGACGCGCTCTCCGCGCTCCAGGAGCCCACTGCTGCGCTTACGCGAGCTG 240
DB 6976 TCAAGGACGCGCTCTCCGCGCTCCAGGAGCCCACTGCTGCGCTTACGCGAGCTG 6917
QY 241 CGTGCAGCACTCGCGCGCGCTGCAAGCATGACCTGTGAACGCGCTTACCTTTTACC 300
DB 6916 CGTGCAGCACTCGCGCGCGCTGCAAGCATGACCTGTGAACGCGCTTACCTTTTACC 6857
QY 301 CCCAGCCCCGCGCATGCGCGAGCGCTTACAGCTTCACTGCTCATCTGTTATTTAGTGT 360
DB 6856 CCCAGCCCCGCGCATGCGCGAGCGCTTCAAGCTTCACTGCTCATCTGTTATTTAGTGT 6797
QY 361 TGGCTTACAGCAAGCTTCTGCTCATCTTGCAGCGGAGATCCGTGACCACTGCGTGT 420
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QY 421 TTT 423
DB 6736 TGT 6734

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RESULT 10
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LOCUS Homo sapiens chromosome 15 clone RP11-276K9 map 15, WORKING DRAFT
DEFINITION SEQUENCE, 13 unordered pieces.
AC087790
AC087790.2 GI:13357344
VERSION HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

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REFERENCE
AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,S.,
          Barta,N., Baetien,V., Boguslavsky,L., Boukhalter,B., Brown,A.,
          Camarata,U., Campolano,A., Choepel,Y., Colangelo,M., Collins,S.,
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          Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J.,
          Zembek,L., Zimmer,A. and Zody,M.
DIRECT SUBMISSION
Submitted (24-JAN-2001) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Mar 16, 2001 this sequence version replaced gi:12408501.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)

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QY 361 TGCGCTTACGACGACACTTCTGCTCATCTTCCGGGGATCCGTGGSCACTCGCGCTGCT 420
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 QY 421 TTT 423
 Db 140825 TGT 140827

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 LOCUS
 DEFINITION Sequence 1195 from Patent EP1293569.
 ACCESSION AX714511
 VERSION AX714511.1 GI:29889464
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo.

REFERENCE
 AUTHORS Isegai, T., Sugiyama, T., Otsuki, T., Wakamatsu, A., Sato, H., Ishii, S., Yamamoto, J. I., Isono, Y., Hio, Y., Otsuka, K., Nagai, K., Irie, R., Tamechika, I., Seki, N., Yoshikawa, T., Otsuka, M., Nagahari, K. and Masuno, Y.
 TITLE Full-length cDNAs
 JOURNAL Patent: EP 1293569-A 1195 19-MAR-2003; Helix Research Institute (Jp) ; Research Association for Biotechnology (Jp)
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 source location/Qualifiers
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 Best Local Similarity 97.5%; Pred. No. 1,9e-58;
 Matches 391; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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RESULT 12
 AK056896/c

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 DEFINITION Homo sapiens CDNA FUJ32334 file, clone PROST2005426.
 ACCESSION AK056896
 VERSION AK056896.1 GI:16552419
 KEYWORDS oligo capping, fts (full insert sequence).
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo.

REFERENCE
 AUTHORS 1
 Ota, T., Suzuki, Y., Nishikawa, T., Otsuki, T., Sugiyama, T., Irie, R., Wakamatsu, A., Hayashi, K., Sato, H., Nagai, K., Kimura, K., Makita, H., Sekine, M., Oobayashi, M., Nishi, T., Shibahara, T., Tanaka, T., Iehi, S., Yamamoto, J., Saito, K., Kawai, Y., Isono, Y., Nakamura, Y., Nagahari, K., Murakami, K., Yasuda, T., Iwayanagi, T., Wagatsuma, M., Shiratori, A., Sudo, H., Hosoiri, T., Kaku, Y., Kodaira, H., Kondo, H., Sugawara, M., Takahashi, M., Kanda, K., Yokoi, T., Furuya, T., Kikkawa, E., Omura, Y., Abe, K., Kamihara, K., Katuta, N., Sato, K., Tanikawa, M., Yamazaki, M., Ninomiya, K., Ishibashi, T., Yamashita, H., Murakawa, K., Fujimori, K., Tanai, H., Kimata, M., Watanabe, S., Hiraoaka, S., Chiba, Y., Iehida, S., Ono, Y., Takiguchi, S., Watanabe, S., Yosida, M., Horvath, T., Kusano, J., Kanehori, K., Takahashi, Fujii, A., Hara, H., Tanase, T., Nomura, Y., Togiya, S., Komai, F., Hara, R., Takeuchi, K., Arita, M., Imose, N., Mueselino, K., Yuki, H., Oshima, A., Sasaki, N., Aotsuka, S., Yoshikawa, Y., Matsumura, H., Ichihara, T., Shiohata, N., Sano, S., Moriya, S., Momiyama, H., Satoh, N., Takami, S., Terashima, Y., Suzuki, O., Nakagawa, S., Senoh, A., Mizoguchi, H., Goto, Y., Shimizu, F., Wakebe, H., Hishigaki, H., Watanabe, T., Sugiyama, A., Takemoto, M., Kawakami, B., Yamazaki, M., Watanabe, K., Kumagai, A., Takura, S., Fukuzumi, Y., Fujimori, Y., Komiyama, M., Tashiro, H., Tanigami, A., Fujiwara, T., Ono, T., Yamada, K., Fujii, Y., Ozaki, K., Hirao, M., Ohmori, Y., Kawabata, A., Hikiji, T., Kobatake, N., Inagaki, H., Ikema, Y., Okamoto, S., Okitani, R., Kawakami, T., Noguchi, S., Itoh, T., Shigeta, K., Senba, T., Matsumura, K., Nakajima, Y., Mizuno, T., Morinaga, M., Sasaki, M., Togaashi, T., Oyama, M., Hata, H., Watanabe, M., Komatsu, T., Mizushima-Sugano, J., Sato, T., Shirai, Y., Takahashi, Y., Nakagawa, K., Okumura, K., Nagase, T., Nomura, N., Kikuchi, H., Masuno, Y., Yamashita, R., Nakai, K., Yada, T., Nakamura, Y., Ohara, O., Isegai, T. and Sugano, S.
 TITLE Complete sequencing and characterization of 21,243 full-length human cDNAs
 JOURNAL Nat. Genet. 36 (1), 40-45 (2004)
 PubMed 14702039

REFERENCE
 AUTHORS 2
 Ieshibashi, T., Kanehori, K., Yosida, M., Watanabe, S., Iehida, S., Ono, Y., Horiuchi, T., Hiraoka, S., Murakawa, K., Takiguchi, S., Kusano, J., Watanabe, M., Fujimori, K., Tanai, H., Iehida, M., Yamashita, H., Chiba, Y., Yamamoto, J., Isono, Y., Kawai-Hio, Y., Wakamatsu, A., Ishii, S., Yamamoto, J., Isono, Y., Kawai-Hio, Y., Saito, K., Nishikawa, T., Kimura, K., Matsuo, K., Nakamura, Y., Sekine, M., Kikuchi, H., Kanda, K., Wagatsuma, M., Takahashi, Fujii, A., Ohshima, A., Sugiyama, A., Kawakami, B., Suzuki, Y., Sugano, S., Nagahari, K., Masuno, Y., Nagai, K. and Isegai, T.
 TITLE NEDO human cDNA sequencing project
 JOURNAL Unpublished
 REFERENCE 3 (bases 1 to 2684)
 AUTHORS Isegai, T., Otsuki, T. and Sugiyama, T.
 TITLE Direct Submission
 JOURNAL Submitted (24-OCT-2001) Takao Isegai, Helix Research Institute, Genomics Laboratory; 1533-3 Yana, Kisarazu, Chiba 292-0812, Japan (E-mail: genomics@hri.co.jp, Tel: 81-438-52-3975, Fax: 81-438-52-3986)

COMMENT
 NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; CDNA full insert sequencing; Research Association for Biotechnology (RAB); CDNA library construction; Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5' - & 3' - end one pass sequencing; RAB, HRI, and Biotechnology Center, National Institute of Technology and Evaluation; clone selection for full insert sequencing; RAB and HRI.

FEATURES
 source location/Qualifiers
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QY	323	CTTCAGCGTTCACCTGCTATGCTTATTTAGTGTGGCTCTGACGACCAAGTTCTCT	382						
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QY	623	GCTGAACGAGACCATTTGATCAACAGACAGTTCACTGCGCTGTGAAGAATTAACG	682						
DB	797	GCTGAATGAGACCATTAACAGAGAGGTTCACTGCGCTGTGGTGAAGAATTAACG	856						
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QY	980	CTCTCTCGGCGCTCAACAATGAGCGGCGCGCTTGTGGGTCAAGCTGGCAACCGGCT	1039						
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RESULT 15
BC029819
LOCUS BC029819 1923 bp mRNA linear PRI 30-JUN-2004
DEFINITION Homo sapiens homolog of Drosophila Numb-interacting protein, mRNA
(CDNA clone MGC:35310 IMAGE:5177619), complete cds.
ACCESSION BC029819
VERSION BC029819.1 GI:20987583
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE

1 (bases 1 to 1923)
Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shennan, C.M., Schuler, G.D., Altshuler, S.F., Zeeberg, B., Buetow, K.H., Scheffer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F., Datchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.P., Casavant, T.L., Stoeckert, T.E., Brownstein, M.J., Usdin, T.B., Tashy, S., Carinici, P., Prange, C., Rana, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McSwan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Morley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahy, J., Helton, E., Kettelman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakeley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Small, D.E., Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

JOURNAL

2 (bases 1 to 1923)
Strausberg, R.L.
Submitted (06-MAY-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
NIH-MGC Project URL: <http://mgc.ncl.nih.gov>

REMARK

COMMENT
Contact: MGC help desk
Email: cgabs-r@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center
Center code: BCM-HGSC
Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>
Contact: angbcm.tmc.edu
Gunnar, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulsged, H., Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nannavati, A.N., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at: <http://image.llnl.gov>
Series: IRAP Plate: 51 Row: 0 Column: 3
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 21389332.
Location/Qualifiers

FEATURES

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ORIGIN

Query Match 25.1%; Score 356.4; DB 8; Length 1923;
Best Local Similarity 63.9%; Pred. No. 2.2e-52;
Matches 556; Conservative 0; Mismatches 311; Indels 3; Gaps 1;

QY 263 CAGCATGACCCCTGTGAAACGGCGTACTGCTTTTACCCCGAGCCCGGCGATGCCGAG 322
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DB 637 CCAAGTCAAGACCAACACATCATCAAGGCTTCAAGTTCAGTGAATCAGGCTGATAT 696
QY 563 CGGCTGCTGTGGGCTTGGAGGGCAATTAATTAACACTCAAGGAGACCCCAAGTGCATCA 622
DB 697 TGGGCTGACAGGTGGGCTGGGTGGAGTCAACATCACTCAAGGAGACCCCGTGCAGCA 756
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DB 1237 GAAAGCTTCTTCAACCAAGTGTGATCA 1266

Search completed: January 22, 2006, 00:49:52
Job time : 7522 secs

XX Claim 4; Page 129; 130pp; English.

PS The present sequence encodes a human transmembrane proteins (HMP).
 XX Agonists and antagonists of the protein are used to treat a disease or
 CC condition associated with overexpression of the protein. Diseases and
 CC conditions which can be treated include muscle cell proliferative,
 CC immunological, reproductive, smooth muscle and neurological disorders
 CC e.g. arteriosclerosis, myeloma, leukemia, acquired immunodeficiency
 CC syndrome (AIDS), allergies, ovulatory defects, angina, hypertension,
 CC stroke, Alzheimer's disease, epilepsy and Tourette's disorder. The
 CC polynucleotides may be used to detect and quantify gene expression in
 CC biopsied tissues where protein expression may be correlated with disease
 CC e.g. to determine absence, presence or excess expression of HMP or to
 CC monitor regulation of HMP expression during therapeutic intervention

XX Sequence 1421 BP; 264 A; 468 C; 395 G; 294 T; 0 U; 0 Other;

Query Match 100.0%; Score 1421; DB 3; Length 1421;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1421; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 61 CTCTGTGGTAAACCAACCCAGAGCGTTGAGAGAGCGCCACTTCCAGCTTCTTAACGA 120
 121 GAGGTGACAGACTCAGACTTTCACAGCCCACTGGTCCAGCGCTTGTACGCAAGAGAG 180
 121 GAGGTGACAGACTCAGACTTTCACAGCCCACTGGTCCAGCGCTTGTACGCAAGAGAG 180
 181 CCAAGGACCGCGCTCTCCCGGTTCAGAGAGCCCACTGGTCTGGCTGCGCCCTG 240
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 DT 20-MAY-2004 (first entry)
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 DE Human tumour-associated antigenic target (TAT) cDNA sequence #5.
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 KW Human; tumour-associated antigenic target; TAT; cell death; tumour;
 XX cancer; cytoskeletal; gene; ss.
 OS Homo sapiens.
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 PN WO2004016225-A2.
 XX
 PD 26-FEB-2004.
 XX
 PF 19-AUG-2003; 2003WO-US025892.
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 PR 19-AUG-2002; 2002US-0404809P.
 PR 21-AUG-2002; 2002US-0405645P.
 PR 23-SEP-2002; 2002US-0413192P.
 PR 15-OCT-2002; 2002US-0419008P.
 PR 15-NOV-2002; 2002US-0426847P.
 PR 02-JUL-2003; 2003US-0484959P.

XX (GETH) GENENTECH INC.
 XX Desauvage PJ, Frantz G, Hillan KJ, Polakie P, Polson A, Smith V,
 XX Spencer SD, Wu TD, Zhang Z;
 XX WPI: 2004-257144/24.
 XX P-PSDB; ADL06505.
 XX
 XX New antibody that binds to a tumor-associated antigenic target (TAT)
 XX polypeptide, useful for preparing a composition for diagnosing or
 XX treating cancer.
 XX
 XX Claim 1; SEQ ID NO 5; 319bp; English.
 XX
 XX The present invention relates to the isolation of human tumour-associated
 XX antigenic target (TAT) polynucleotide and polypeptide sequences. Also
 XX disclosed is an antibody that binds to a TAT polypeptide. The antibody is
 XX a monoclonal antibody, an antibody fragment, a chimeric antibody or a
 XX humanised antibody. It is conjugated to a growth inhibitory agent. It is
 XX produced in bacteria or in CHO cells and induces death of a cell to which
 XX it binds. The antibody is useful for preparing a composition for
 XX diagnosing or treating tumours and cancer. The present sequence
 XX represents a human TAT cDNA sequence of the invention.
 XX
 XX Sequence 1450 BP; 279 A; 475 C; 398 G; 297 T; 0 U; 1 Other:
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 XX 9 GAACCGAAGAAAGTACGCGCTACAGACAGTGAAGAAATGTTCCCTGCGCGCTAGAAAA 68
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 XX 181 CCAAGAGACGGCTCTCCGCGTCCAGGACCCCAAGCTTGTGCTTGTGCTGCGCGCTG 240
 XX 189 CCAAGAGACGGCTCTCCGCGTCCAGGACCCCAAGCTTGTGCTTGTGCTGCGCGCTG 248
 XX 241 CGAGGACACTCGGCGCGGCGTGAAGATGACCCCTGTGGAACGGGGTACTGCTTTTAC 300
 XX 249 CGAGGACACTCGGCGCGGCGTGAAGATGACCCCTGTGGAACGGGGTACTGCTTTTAC 308
 XX 301 CCGAGCCCGGAGATGCGGAGGCTTTCAGGCTTCACTGCTCATGCTATTCTAGTGT 360
 XX 309 CCGAGCCCGGAGATGCGGAGGCTTTCAGGCTTCACTGCTCATGCTATTCTAGTGT 368
 XX 361 TGGCTTAGAGAGCAAGCTTCTCTGCTCATCTTCCGGGGAATCCGTGGCACTCGGCTG 420
 XX 369 TGGCTTAGAGAGCAAGCTTCTCTGCTCATCTTCCGGGGAATCCGTGGCACTCGGCTG 428
 XX 421 TTTGGTTGGTGAAGGCTTCTCTGCTCATCTTCAATGAGGCGAAGAAATGTGGCTGTG 480
 XX 429 TTTGGTTGGTGAAGGCTTCTCTGCTCATCTTCAATGAGGCGAAGAAATGTGGCTGTG 488
 XX 481 TCAAGTGAAGATGTTGTTGGTGAAGAGTGAACCAACACATCTTCAAAAGCTTTCAGCG 540
 XX 489 TCAAGTGAAGATGTTGTTGGTGAAGAGTGAACCAACACATCTTCAAAAGCTTTCAGCG 548
 XX 541 CAGGCGCGCTTACAGCCCGTGTGGTGTGCTGCTGTTGGGCTTGAAGGCAATTAATTAC 600
 XX 549 CAGGCGCGCTTACAGCCCGTGTGGTGTGCTGCTGTTGGGCTTGAAGGCAATTAATTAC 608
 XX 601 TCAAGGGAACCCGAGTCACTGAGTGAAGAGACATTAAGTCAAGAGAGCTTCACT 660

DB 609 TCACAGAGGACCCAGTGCATCAGCTGAACAGACCAATTAATCAACAGAGAGTTCACCT 668
 QY 661 GGCGTCTGAAGAAGATTAACGCGGAGTACGCGAAGCACTGAGAGGGGCTGCGCG 720
 DB 669 GGCGTCTGAAGAAGATTAACGCGGAGTACGCGAAGCACTGAGAGGGGCTGCGCG 728
 QY 721 ACCAGTGTCTTACCTGCGGAGAAAGTTCAACCGAGTACCCTTTCGCGCTGTACACC 780
 DB 729 ACCAGTGTCTTACCTGCGGAGAAAGTTCAACCGAGTACCCTTTCGCGCTGTACACC 788
 QY 781 AGTACCACTGCGGAGACACTACGCTCGGCAACGCTAATGAGGTGCTTCTTCTGCG 840
 DB 789 AGTACCACTGCGGAGACACTACGCTCGGCAACGCTAATGAGGTGCTTCTTCTGCG 848
 QY 841 TCTCTTCAACAGTGTCTCTCAAGCGGCGCGCTCTACAGGAGCTGAGCACTGTA 900
 DB 849 TCTCTTCAACAGTGTCTCTCAAGCGGCGCGCTCTACAGGAGCTGAGCACTGTA 908
 QY 901 CCACGAGACCTTTCGCGCTTTCGAGGCTTTCGCTTTCGCTTTCATCTTACGCTGCG 960
 DB 909 CCACGAGACCTTTCGCGCTTTCGAGGCTTTCGCTTTCGCTTTCATCTTACGCTGCG 968
 QY 961 TCTGCGCTCGGCTGAGGCTCTCCGCGTCACTACAGTACGAGGCGCTTTCGCG 1020
 DB 969 TCTGCGCGCTCGGCTGAGGCTCTCCGCGTCACTACAGTACGAGGCGCTTTCGCG 1028
 QY 1021 TCACGCTGACACCGGCGCTCTGCTGCTTCTCTGAGAGGCGCGTGAAGTCTCAGT 1080
 DB 1029 TCACGCTGACACCGGCGCTCTGCTGCTTCTCTGAGAGGCGCGTGAAGTCTCAGT 1088
 QY 1081 ATGTTGGCGCCAGCGCTCTTCGCAACCTTTCGACACCAAGCGCAAGAGCTGACGACAG 1140
 DB 1089 ATGTTGGCGCCAGCGCTCTTCGCAACCTTTCGACACCAAGCGCAAGAGCTGACGACAG 1148
 QY 1141 AGAGAGGCGGCTCAGCTTATCTCGGCGACCTCACTGACACAGAGCGCTTCTCCAG 1200
 DB 1149 AGAGAGGCGGCTCAGCTTATCTCGGCGACCTCACTGACACAGAGCGCTTCTCCAG 1208
 QY 1201 ACTTAAATATATACACACTTATCTGAGAGGAGGAGCCCAATCTGACTCTTCCGCGCT 1260
 DB 1209 ACTTAAATATATACACACTTATCTGAGAGGAGGAGCCCAATCTGACTCTTCCGCGCT 1268
 QY 1261 TGGGACATGCGCAGGCGGAGAGAGTCCCGCAGGCTTGGGCGAGGAGTCTCAGAA 1320
 DB 1269 TGGGACATGCGCAGGCGGAGAGAGTCCCGCAGGCTTGGGCGAGGAGTCTCAGAA 1328
 QY 1321 GGGCACTGAGCGCTGCTGGGCGAGGCTTGGACATCCGAGCAACCGAGAAATCTCC 1380
 DB 1329 GGGCACTGAGCGCTGCTGGGCGAGGCTTGGACATCCGAGCAACCGAGAAATCTCC 1388
 QY 1381 TGGGCGGATCTGTAATAAATCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 1421
 DB 1389 TGGGCGGATCTGTAATAAATCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 1429
 XX
 XX RESULT 3
 XX ABL90535
 XX ID ABL90535 standard; cDNA; 1474 BP.
 XX
 XX AC ABL90535;
 XX XX
 XX DT 24-MAY-2002 (first entry)
 XX XX
 XX DE Human polynucleotide SEQ ID NO 1097.
 XX XX
 XX XX Cytostratic; immunosuppressive; nootropic; neuroprotective; antiviral;
 XX XX antiallergic; hepatotropic; antidiabetic; antiinflammatory; antitumor;
 XX XX vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
 XX XX cadidant; gene therapy; cancer; immune disorder; cardiovascular disorder;
 XX XX neurological disease; infection; human; secreted protein; gene; ss.
 XX OS Homo sapiens.
 XX XX

XX	MO200190304-A2.
PD	29-NOV-2001.
PF	18-MAY-2001; 2001WO-US016450.
PR	19-MAY-2000; 2000US-0205515P.
PA	(HUMA-) HUMAN GENOME SCI INC.
PI	Birse CE, Rosen CA;
DR	WPI; 2002-122018/16. P-PDB; ABB90126.
PT	Novel 1405 isolated polypeptides, useful for diagnosis, treatment and prevention of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferative disorders.
CC	Claim 4; SEQ ID NO 1097; 2081bp + Sequence Listing; English.
CC	The invention relates to novel genes (ABL89449-ABR90853) and proteins (ABB89040-ABR90444) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
CC	Sequence 1474 BP; 292 A; 480 C; 404 G; 296 T; 0 U; 2 Other;
SO	
Query Match	99.8%; Score 1418.6; DB 6; Length 1474;
Best Local Similarity	99.8%; Pred. No. 0;
Matches 1418; Conservative	2; Mismatches 1; Indels 0; Gaps 0.
OY	1 GAACGAGAAAGTAA CGGTACA GACAGTAAGAATAGTTTGCTCGCCGGCTAGAAAAA 60
DB	19 GAACGAGAAAGTAA CGGTACA GACAGTAAGAATAGTTTGCTCGCCGGCTAGAAAAA 78
OY	61 CTCTGTGGTACCAC CCCAGAGCGTTGAGAGAACCCCACTTCACGTTCTCTTAAACGA 120
DB	79 CTCTGTGGTACCAC CCCAGAGCGTTGAGAGAACCCCACTTCACGTTCTCTTAAACGA 138
OY	121 GAGGTGCAGACTCAGACTTCACAGGCCCACTCGGTCCAGGCTTGTACGAAAGACG 180
DB	139 GAGGTGCAGACTCAGACTTCACAGGCCCACTCGGTCCAGGCTTGTACGAAAGACG 198
OY	181 CCAGAGACGCGCTCTCCCGCGTCCAAGCACCCCAAGCTTGAGCTTGCCGCGCTG 240
DB	199 TCAGAGACGCGCTCTCCCGCGTCCAAGCACCCCAAGCTTGAGCTTGCCGCGCTG 258
OY	241 CGTGCAGACTCGGCGCGCGGTGAGAGTAGACCTTGAGAAAGCGGTATCTTTTAC 300
DB	259 CGTGCAGACTCGGCGCGCGGTGAGAGTAGACCTTGAGAAAGCGGTATCTTTTAC 318
OY	301 CCCAGCCCCGGGATGCGGAGGCTCAGGCTTCACTGCTATCGTATTCAGATT 360
DB	319 CCCAGCCCCGGGATGCGGAGGCTTCACTGCTATCGTATTCAGATT 378
OY	361 TGCGCTTAGACAAGCTTCTGCTCATCTTGCCGGGAGATCCGTGGCACTCGCGCTGT 420
DB	379 TGCGCTTAGACAAGCTTCTGCTCATCTTGCCGGGAGATCCGTGGCACTCGCGCTGT 438

QY	421	TTTGTGTGGAGAGATCTCTCAAGTGTTCATATAGGCGAGAAATTTGTGGCTGTGACT	480
Db	439	TTTGTGTGGAGAGATCTCTCAAGTGTTCATATAGGCGAGAAATTTGTGGCTGTGACT	498
QY	481	TCAGTGCAGATGATGTTCTGTGGGTGACAGTGAACAACAATCTCTCAAAAGCCTTCAGCG	540
Db	499	TCAGTGCAGATGATGTTCTGTGGGTGACAGTGAACAACAATCTCTCAAAAGCCTTCAGCG	558
QY	541	CAGCGCCGTTTACAGCCCGGTGTGGTCTGCTCGTGGGCTGTGAGGGAATTATATTAC	600
Db	559	CAGCGCCGTTTACAGCCCGGTGTGGTCTGCTCGTGGGCTGTGAGGGAATTATATTAC	618
QY	601	TCACAGGAGCCCCAGTGCATCAGCTGAACAGACCAATTGACTAACAGAGCTTCACT	660
Db	619	TCACAGGAGCCCCAGTGCATCAGCTGAACAGACCAATTGACTAACAGAGCTTCACT	678
QY	661	GCGCTGTGAAGAAGATTTACGCGCGGAGTACGCGAACCACTGTGAGAGAGGCTGCCGG	720
Db	679	GCGCTGTGAAGAAGATTTACGCGCGGAGTACGCGAACCACTGTGAGAGAGGCTGCCGG	738
QY	721	ACCCAGTGCCTACCTGTGGCGGAGAAAGTTCAACCGAGTACGCCCTTGTGGGCGCTGACACC	780
Db	739	ACCCAGTGCCTACCTGTGGCGGAGAAAGTTCAACCGAGTACGCCCTTGTGGGCGCTGACACC	798
QY	781	AGTACCACTGTGCGGAGACACTACGCTCGGCAAGCTATGGGTGGCGTTCTGCTTGGC	840
Db	799	AGTACCACTGTGCGGAGACACTACGCTCGGCAAGCTATGGGTGGCGTTCTGCTTGGC	858
QY	841	TCTCTTCMAAGTGTGCTCTCCACGCGCGGCGCCGCTCTACAGAGGCTGTGCACTGTGTA	900
Db	859	TCTCTTCMAAGTGTGCTCTCCACGCGCGGCGCCGCTCTACAGAGGCTGTGCACTGTGTA	918
QY	901	CCACCGGAGCCTTGCGCCTCTTCGAGGATCTTCGCTTGGCCTCATCTTACGTGCGCG	960
Db	919	CCACCGGAGCCTTGCGCCTCTTCGAGGATCTTCGCTTGGCCTCATCTTACGTGCGCG	978
QY	961	TCTGCGCGCTTCGCGCTTACGCTCTCGCGGCTGACCACTCAGTACGCGCGCCTTCTGGG	1020
Db	979	TCTGCGCGCTTCGCGCTTACGCTCTCGCGGCTGACCACTCAGTACGCGCGCCTTCTGGG	1038
QY	1021	TCAGGCTGTGAGAACGGGAGTCTGTGCTCTTCCTCGAAGGGGCGGTGTAGTCTCCAGT	1080
Db	1039	TCAGGCTGTGAGAACGGGAGTCTGTGCTCTTCCTCGAAGGGGCGGTGTAGTCTCCAGT	1098
QY	1081	ATGTTGCGGCCAGCGCTTTCGCAACCTTCTGACCAAAAGCGCCAGAGACTGACCGACG	1140
Db	1099	ATGTTGCGGCCAGCGCTTTCGCAACCTTCTGACCAAAAGCGCCAGAGACTGACCGACG	1158
QY	1141	AGAGAAGGGGGCTCACCTCTTATCTCTGGGCAACCACTGACAAACAGGCGCTTCCAG	1200
Db	1159	AGAGAAGGGGGCTCACCTCTTATCTCTGGGCAACCACTGACAAACAGGCGCTTCCAG	1218
QY	1201	ACTTAAATATGATACCACTAACCTGTGAGGGGAGACCAATCTGSACTCTTCCCGCCT	1260
Db	1219	ACTTAAATATGATACCACTAACCTGTGAGGGGAGACCAATCTGSACTCTTCCCGCCT	1278
QY	1261	TGGAGCATTCGAGGCGGAGAAAGAGTGCCTGCGACAGGCTGTGGCCAGAGAGCTTCAAGAA	1320
Db	1279	TGGAGCATTCGAGGCGGAGAAAGAGTGCCTGCGACAGGCTGTGGCCAGAGAGCTTCAAGAA	1338
QY	1321	GGGCACTGAGGCTGTGCGCGGAGGCTCGGAGATCCGACGAGACAGAGGAAAGTCTCC	1380
Db	1339	GGGCACTGAGGCTGTGCGCGGAGGCTCGGAGATCCGACGAGACAGAGGAAAGTCTCC	1398
QY	1381	TGGGCGCATCTGTAAATAAACCTTTTCTTTTGTTTTTT 1421	
Db	1399	TGGGCGCATCTGTAAATAAACCTTTTCTTTTGTTTTTT 1439	
RESULT 4			
AAA94623			
ID AAA94623 standard; DNA; 1441 BP.			

XX AA94623;
 AC 11-JAN-2001 (first entry)
 XX Human CASB618 coding sequence.
 XX Epitope; human; CASB618; chromosome 15; tumour; vaccine; cancer; ovarian;
 KM colon; autoimmune disease; HLA_A0201; 88.
 XX Homo sapiens.
 XX Key Location/Qualifiers
 FT CDS 259..1221
 FT /tag= a
 FT /product= "Human CASB618"
 PN W020053748-A2.
 XX 14-SEP-2000.
 PD 09-MAR-2000; 2000MO-EP02048.
 PF 11-MAR-1999; 99GB-00005607.
 PR 01-SEP-1999; 99GB-00020590.
 XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
 PA Bruck CEW, Cassart J, Coche T, Vinals Y De BasseolsC;
 PI WPI: 2000-572268/53.
 DR P-PSDB; AAB26325.
 XX New human CASB618 polypeptide, useful as a vaccine for prophylactic and
 PT therapeutic treatment of cancers, particularly ovarian or colon cancer,
 PT autoimmune diseases and related conditions.
 XX Claim 13; Page 61; 76pp; English.
 PS The present sequence is the coding sequence of human CASB618 protein. The
 CC gene for human CASB618 is thought to be located on chromosome 15. The
 CC protein encoded by the present sequence and epitopes of the CASB618
 CC protein (see AAB26327 to AAB6339) are useful in diagnosing the occurrence
 CC of tumour cells and in vaccines for prophylactic and therapeutic
 CC treatment of cancers, particularly ovarian or colon cancer, autoimmune
 CC diseases and related conditions
 CC
 SQ Sequence 1441 BP; 289 A; 466 C; 392 G; 294 T; 0 U; 0 Other;
 Query Match 99.4%; Score 1413; DB 3; Length 1441;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1413; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 309 CCGCATGCCGACAGGCTTACAGCGTTCCATGCTCATGTTATTTCTAGTGTGTTGGCTCTA 368
 DB 301 CGGCATGCCGACAGGCTTACAGCGTTCCATGCTCATGTTATTTCTAGTGTGTTGGCTCTA 360
 QY 369 GCAGCAAGCTTCTGCTCATCTTGGCCGGAGATCCGTGCCACTGGCGTGGTTGGTTG 428
 DB 361 GCAGCAAGCTTCTGCTCATCTTGGCCGGAGATCCGTGCCACTGGCGTGGTTGGTTG 420
 QY 429 GTGAGAGTTCTTCTGAGTGTGTTATAGGCGCAAAATGTGCTGAGCTTCACTGAGTCA 488
 DB 421 GTGAGAGTTCTTCTGAGTGTGTTATAGGCGCAAAATGTGCTGAGCTTCACTGAGTCA 480
 QY 489 GAATGCTTGTGGGTACAGTGAACACCAACATCTTACAAAGCTTACAGCGAGCGCG 548
 DB 481 GAATGCTTGTGGGTACAGTGAACACCAACATCTTACAAAGCTTACAGCGAGCGCG 540
 QY 549 GTTACAGCCCGTGTCCGTCTGCTGTGGGCTGAGAGGCAATTATATACCTACACAGGG 608
 DB 541 GTTACAGCCCGTGTCCGTCTGCTGTGGGCTGAGAGGCAATTATATACCTACACAGGG 600
 QY 609 ACCCGAGTCATCAGCTGAACGAGACCAATTGACTAACAGAGCACTTGGCGGTCTG 668
 DB 601 ACCCGAGTCATCAGCTGAACGAGACCAATTGACTAACAGAGCACTTGGCGGTCTG 660
 QY 669 AAGAGAAATTAACGCGCGAGTACGCGAAACGACTGAGAGAGGAGCTGCCGACCCAGTG 728
 DB 661 AAGAGAAATTAACGCGCGAGTACGCGAAACGACTGAGAGAGGAGCTGCCGACCCAGTG 720
 QY 729 CTCTACCTGCGGAGAAAGTTACACCGAGTAGCCCTTGGCGGTGTACACAGTACAC 788
 DB 721 CTCTACCTGCGGAGAAAGTTACACCGAGTAGCCCTTGGCGGTGTACACAGTACAC 780
 QY 789 CTGGCGGAGACATACGCGCTTGGGCAAGCTATAGGAGTGGCTTGGGCTTCTCTCC 848
 DB 781 CTGGCGGAGACATACGCGCTTGGGCAAGCTATAGGAGTGGCTTGGGCTTCTCTCC 840
 QY 849 AAGCTCTGCTCTCCACAGCGCGCGCTCTACGAGAGCTGTGACATGACACCGGA 908
 DB 841 AAGCTCTGCTCTCCACAGCGCGCGCTCTACGAGAGCTGTGACATGACACCGGA 900
 QY 909 GCCTTGGCGCTTGGGAGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGG 968
 DB 901 GCCTTGGCGCTTGGGAGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGG 960
 QY 969 CTCCGCTTGAAGCTCTTCCGCGCTCACCATCTACATAGGCGCGCTTGGGCTTGGGCTTGGG 1028
 DB 961 CTCCGCTTGAAGCTCTTCCGCGCTCACCATCTACATAGGCGCGCTTGGGCTTGGGCTTGGG 1020
 QY 1029 GCAACCGGCGTCTGTGCTCTTCTCTGAGAGGCGGTGTGAGTCTTCACTATGTTCCG 1088
 DB 1021 GCAACCGGCGTCTGTGCTCTTCTCTGAGAGGCGGTGTGAGTCTTCACTATGTTCCG 1080
 QY 1089 CCCAGGCTTCTTGGACACCTTCTTGAACCAAGCGCCAAAGACTGACGCCAGAGAGAGG 1148
 DB 1081 CCCAGGCTTCTTGGACACCTTCTTGAACCAAGCGCCAAAGACTGACGCCAGAGAGAGG 1140
 QY 1149 GGGCTACCTTATTTCTTCCGCGACCACTGACCAAGAGCGGCTCTCCAGACTTAAAA 1208
 DB 1141 GGGCTACCTTATTTCTTCCGCGACCACTGACCAAGAGCGGCTCTCCAGACTTAAAA 1200
 QY 1209 TGTATCACCACTAACCTGTAGAGGAGGACCAATCTGGAATCTTCCCGGCTTGGAGCAT 1268
 DB 1201 TGTATCACCACTAACCTGTAGAGGAGGACCAATCTGGAATCTTCCCGGCTTGGAGCAT 1260
 QY 1269 CGAGGCGGGAAGAGTGTGCGCGACAGGCTTGGGCGAGAGACTTCAGAGAGGCACTG 1328
 DB 1261 CGAGGCGGGAAGAGTGTGCGCGCGACAGGCTTGGGCGAGAGACTTCAGAGAGGCACTG 1320
 QY 1329 AGGCTGTGTGGCGGAGGCTTGGGCAATCTGCGAGGACCAAGGGAAGTCTCTGCGGCGA 1388
 DB 1321 AGGCTGTGTGGCGGAGGCTTGGGCAATCTGCGAGGACCAAGGGAAGTCTCTGCGGCGA 1380
 QY 1389 TCTGTAAATTAACCTTTTCTTTGTTTTT 1421

DB 1381 TCTGTAAATTAACCTTTTCTTTCTTTT 1413

RESULT 5
ADD192228
ID ADD19228 standard; cDNA; 1491 BP.
XX ADD19228;
AC
XX 15-JAN-2004 (first entry)
XX
XX
DE Human cDNA from secreted protein gene 45.
XX
XX human secreted protein; cytostatic; antibacterial; virucide;
XX neuroprotective; gynaecological; gastrointestinal-Gen; cardiant;
XX cardiovascular-Gen; nephrotoxic; antiinflammatory; muscular-Gen;
XX respiratory-Gen; immunosuppressive; cerebroprotective; vasotropic;
XX neurotropic; antiallergic; cancer; bacterial infection; viral infection;
XX neutral disorder; immune system disorder; blood disorder;
XX muscular disorder; reproductive disorder; gastrointestinal disorder;
XX pulmonary disorder; cardiovascular disorder; renal disorder;
XX inflammatory disorder; proliferative disorder; human; ss; gene.
OS Homo sapiens.
XX MO2003052377-A2.
XX
XX 26-JUN-2003.
XX
XX 06-NOV-2002; 2002WC-US035606.
XX
XX 07-NOV-2001; 2001US-0331046P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM;
XX
XX MPI: 2003-533050/50.
XX P-PSDB; ADD19303.
XX
XX
XX New isolated nucleic acids encoding signal transduction pathway component
XX polypeptides, useful for diagnosing, treating, and/or preventing
XX disorders, such as cancer, infections, cardiovascular and inflammatory
XX diseases.
XX
XX Claim 1; SEQ ID NO 55; 554bp; English.
XX
XX The invention relates to an isolated nucleic acid molecule (cDNA)
XX encoding a human secreted protein, representing one of 85 novel genes.
XX Also included are recombinant vectors, host cells (expressing the
XX protein), the secreted proteins (including their fragments, epitopes and
XX homologues), an isolated antibody that binds specifically to the protein,
XX diagnosing a pathological condition or susceptibility to a pathological
XX condition (comprising determining the presence or absence of a mutation
XX in the nucleic acid and diagnosing a condition based on the presence or
XX absence of the mutation), diagnosing a pathological condition or
XX susceptibility to a pathological condition (comprising determining the
XX presence or amount of expression of the protein in a biological sample
XX and diagnosing a condition based on the presence or amount of expression
XX of the protein), preventing, treating or ameliorating a medical condition
XX by administering the nucleic acid or protein to a mammalian subject,
XX identifying a binding partner to the protein, the gene corresponding to
XX the cDNA sequence, and identifying an activity in a biological assay
XX (comprising expressing the nucleic acid in a cell, isolating the
XX supernatant, detecting an activity in a biological assay and identifying
XX the protein in the supernatant having the activity). The nucleic acids
XX and proteins display the following activities: cytostatic, antibacterial,
XX virucide, Neuroprotective, Gynaecological, Gastrointestinal-Gen,
XX Cardiant, Cardiovascular-Gen, Nephrotoxic, Antiinflammatory, Muscular-
XX Gen, Respiratory-Gen, Immunosuppressive, Cerebroprotective, Vasotropic,
XX Neurotropic, Antiallergic. The methods and compositions of the present
XX invention are useful for diagnosing, treating, preventing and/or

CC prognosticating disorders related to the novel polypeptides, such as
CC cancer, bacterial or viral infections, and neural, immune system, blood,
CC muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,
CC renal, inflammatory or proliferative disorders (many examples of these
CC diseases and disorders are given in the specification). The present
CC sequence encodes a novel secreted protein of the invention.
XX
XX Sequence 1491 BP; 293 A; 485 C; 410 G; 302 T; 0 U; 1 Other;
SQ
Query Match 99.4%; Score 1412; DB 10; Length 1491;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1412; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 8 GAAAGTAAAGGCTTACAGAGAGAGAAATGTTGCTGCGCGGTAGAAAACTCTGTC 67
DB 43 GAAAGTAAAGGCTTACAGAGAGAGAAATGTTGCTGCGCGGTAGAAAACTCTGTC 102
QY 68 GGTACCAACCCGAGAGCGTTGAGAGAGCCCACTTCAAGCTTCTTAAACGAGAGTGC 127
DB 103 GGTACCAACCCGAGAGCGTTGAGAGAGCCCACTTCAAGCTTCTTAAACGAGAGTGC 162
QY 128 AGAAGTCAAGCTTACACAGCCCACTGCGTCCAGCTTGTACGCAAGAGAGCCAAAGA 187
DB 163 AGAAGTCAAGCTTACACAGCCCACTGCGTCCAGCTTGTACGCAAGAGAGCCAAAGA 222
QY 188 CGGCGTCTCCGCGGTCCAGAGCCCAAGCTTGTGCTGCTGCGCGGTCCGCGTCCAG 247
DB 223 CGGCGTCTCCGCGGTCCAGAGCCCAAGCTTGTGCTGCTGCGCGGTCCGCGTCCAG 282
QY 248 CACTGCGCGCGGTGAGAGATGAGAGCGGATGAGAGCGGATGAGAGCGGATGAGAGCGG 307
DB 283 CACTGCGCGCGGTGAGAGATGAGAGCGGATGAGAGCGGATGAGAGCGGATGAGAGCGG 342
QY 308 CCGGATGCGCGAGGCTTACAGGCTTCACTGCTCATCGTTATTTAGAGTGTGCTGCT 367
DB 343 CCGGATGCGCGAGGCTTACAGGCTTCACTGCTCATCGTTATTTAGAGTGTGCTGCT 402
QY 368 AGAGCAAGCTTCTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 427
DB 403 AGAGCAAGCTTCTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 462
QY 428 GGTGAGAGTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 487
DB 463 GGTGAGAGTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 522
QY 488 AGAATGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 547
DB 523 AGAATGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 582
QY 548 CGTTACAGCCCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 607
DB 583 CGTTACAGCCCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 642
QY 608 GACCCAGTCACTAGCTGTAAGCAAGCACTTGAATCAAGAGAGTCACTGCGGTCT 667
DB 643 GACCCAGTCACTAGCTGTAAGCAAGCACTTGAATCAAGAGAGTCACTGCGGTCT 702
QY 668 GAAAGGAATTAAGCGCGAGTGAAGCAAGCACTGGAAGAGAGGCTCCGAGCCAGT 727
DB 703 GAAAGGAATTAAGCGCGAGTGAAGCAAGCACTGGAAGAGAGGCTCCGAGCCAGT 762
QY 728 GCTTACCTGCGGAGAAATTTACACAGAGTGAAGCTTGAAGAGTGAAGAGTGAAG 787
DB 763 GCTTACCTGCGGAGAAATTTACACAGAGTGAAGCTTGAAGAGTGAAGAGTGAAG 822
QY 788 CTTGCGGAGAACTAGACCTGCGCAAGTATGAGTGAAGTGAAGTGAAGTGAAGTGAAG 847
DB 823 CTTGCGGAGAACTAGACCTGCGCAAGTATGAGTGAAGTGAAGTGAAGTGAAGTGAAG 882
QY 848 CAAAGTGTGCTCTCAAGCGCGCGCGCTTACAGAGAGCTGAGCACTGAGCAAGCGG 907
DB 883 CAAAGTGTGCTCTCAAGCGCGCGCGCTTACAGAGAGCTGAGCACTGAGCAAGCGG 942


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Db      554 CAGCGGCGGCTTACAGCCCGGTGCTGCTCTGCGGCGCTGAGGGCATTATATTACAC 613
Qy      601 TCACAGGAGAGCCCGAGTGCATCACTGTAACGAGCACTTGACTCAACGAGCACTTCACT 660
Db      614 TCACAGGAGAGCCCGAGTGCATCACTGTAACGAGCACTTGACTCAACGAGCACTTCACT 673
Qy      661 GGGCTGTGAAGAAGATTACGCCGCGAGTACCGGAGCACTGAGAAAGGGCTGCCG 720
Db      674 GGGCTGTGAAGAAGATTACGCCGCGAGTACCGGAGCACTGAGAAAGGGCTGCCG 733
Qy      721 ACCCACTGCTCTACCTGCGGAGAGATTCAACCGAGTACGCTTGGGCTGTACAC 780
Db      734 ACCCACTGCTCTACCTGCGGAGAGATTCAACCGAGTACGCTTGGGCTGTACAC 793
Qy      781 AGTACCACTGCGGAGCACTACGCTCGGCGAGGCTGATGAGGAGGCTGCTGCTGCG 840
Db      794 AGTACCACTGCGGAGCACTACGCTCGGCGAGGCTGATGAGGAGGCTGCTGCTGCG 853
Qy      841 TCCTCTCAACGAGTGTCTCTCCACGCGCGGCGCTTACCGAGGCTGTGCACTGCTGA 900
Db      854 TCCTCTCAACGAGTGTCTCTCCACGCGCGGCGCTTACCGAGGCTGTGCACTGCTGA 913
Qy      901 CCACCGGAGCTTGGGCTCTTGGGAGTCTTGGCTTGGCTCTGATCTTGAAGCTGCCG 960
Db      914 CCACCGGAGCTTGGGCTCTTGGGAGTCTTGGCTTGGCTCTGATCTTGAAGCTGCCG 973
Qy      961 TCGGCGGCTCGGCTCCTCCGCGCTCACTGAGTACGAGGCGGCGCTTGGAG 1020
Db      974 TCGGCGGCTCGGCTCCTCCGCGCTCACTGAGTACGAGGCGGCGCTTGGAG 1033
Qy      1021 TCACGCTGCGAACCGGCGCTCTGCTGCTTCTCTCGAGAGGCGCTGTGAGTCTTCACT 1080
Db      1034 TCACGCTGCGAACCGGCGCTCTGCTGCTTCTCTCGAGAGGCGCTGTGAGTCTTCACT 1093
Qy      1081 ATGTTGGGCGGAGGCTCTTGGAGCCCTTGTGACCAAAAGCGCAGAGTGC-AGCCAG 1139
Db      1094 ATGTTGGGCGGAGGCTCTTGGAGCCCTTGTGACCAAAAGCGCAGAGTGC-AGCCAG 1153
Qy      1140 GAGAGAGGAGGAGCTCACTTATCTCTGCGGAGCCCACTGACCAAGAGGCGCTCCCA 1199
Db      1154 GAGAGAGGAGGAGCTCACTTATCT-GGGAGCCCACTGACCAAGAGGCGCTTCCCA 1212
Qy      1200 GAC-TTAAATGATACCACTTACCTGTGAGGAGGAGCCCAATCTGACTCTTCCCGC 1258
Db      1213 GACTTAAATGATACCACTTACCTGTGAGGAGGAGCCCAATCTGACTCTTCCCGC 1272
Qy      1259 CTGAGGACATCGAGGCGCGGAGAGAGTGCCTGCGGCTGAGGAGGAGGCTTCAAG 1318
Db      1273 CTGAGGACATCGAGGCGCGGAGAGAGTGCCTGCGGCTGAGGAGGAGGCTTCAAG 1332
Qy      1319 AAGGAGCACTGAGGCTGCTGCGCGAGAGGCTCGGACATCCGAGGAGCAAGGAAAGTCT 1378
Db      1333 AAGGAGCACTGAGGCTGCTGCGCGAGAGGCTCGGACATCCGAGGAGCAAGGAAAGTCT 1392
Qy      1379 CCTGGGCGATCTGTAAATTAACCTTTTCTTTTGTGTTTTT 1421
Db      1393 CCTGGGCGATCTGTAAATTAACCTTTTCTTTTGTGTTTTT 1435

```

RESULT 7
 AB273640
 ID AB273640 standard; cDNA, 1460 BP.
 AC AB273640;
 XX
 XX 12-MAY-2003 (first entry)
 DE Secreted protein-encoding gene 360 cDNA clone HUFCL31, SEQ ID NO:370.
 XX
 XX Human; secreted protein; cancer; tumour; hyperproliferative disorder;
 KW autoimmune disorder; inflammation; angiogenic diseases; AIDS;
 KW acquired immunodeficiency syndrome; hepatitis; anaemia; wound healing;

KM drug screening; chromosome identification; chromosome mapping;
 KM cytotoxic; gene therapy; antiinflammatory; immunomodulator; anti-HIV;
 KW antineoplastic; vulnery; chromosome 9p21; gene; 88.
 OS Homo sapiens.
 PN W0200277013-A2.
 XX
 PD 03-OCT-2002.
 PF 26-MAR-2002; 2002WO-US009370.
 PR 27-MAR-2001; 2001US-0278650P.
 PR 12-SEP-2001; 2001US-00950082.
 PR 12-SEP-2001; 2001US-00950083.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Ruben SM;
 XX
 DR WPI; 2003-040578/03.
 PT P-PSDB; ABR01306.
 XX
 PT New human secreted proteins and nucleic acids, useful for detecting or
 PT treating cancer or other hyperproliferative disorders, autoimmune
 PT disorders, inflammatory disorders, HIV disease, hepatitis or anemia.
 XX
 PS Claim 21; Page 1345; 2474pp; English.
 XX
 CC AB273281-AB273697 represent cDNAs corresponding to 391 human secreted
 CC protein genes, and ABP00947-ABP01363 represent the proteins they encode.
 CC AB273698-AB274687 represent human secreted protein genomic fragments. The
 CC invention also encompasses antibodies specific for the secreted proteins,
 CC the use of the secreted proteins in drug screening and recombinant
 CC vectors and host cells comprising a nucleic acid of the invention. The
 CC secreted proteins are thought to be involved in biological activities
 CC associated with cellular signalling, cellular differentiation, cell
 CC migration, prothrombin activation and neurotransmitter activity. The
 CC secreted proteins, nucleic acids encoding them, antibodies or antibody
 CC fragments specific for the secreted proteins, and modulators of protein
 CC activity are useful for diagnosing or treating cancers or other
 CC hyperproliferative disorders. Additionally, the secreted proteins and
 CC their nucleic acids may also be used in the treatment of autoimmune
 CC disorders, inflammatory disorders, diseases involving angiogenesis, AIDS
 CC (acquired immunodeficiency syndrome), hepatitis, anaemia, and to promote
 CC wound healing. Nucleic acids of the invention may be used for chromosome
 CC identification, chromosome mapping, in gene therapy, for identifying
 CC individuals from minute biological samples, as hybridisation probes, and
 CC as molecular weight markers. The present sequence represents a human
 CC secreted protein-encoding cDNA clone of the invention
 XX
 SQ Sequence 1460 BP; 292 A; 472 C; 398 G; 298 T; 0 U; 0 Other;

Query Match 96.8%; Score 1375.8; DB 8; Length 1460;
 Best Local Similarity 99.3%; Pred. No. 0;
 Matches 1413; Conservative 0; Mismatches 7; Indels 3; Gaps 3;

```

Qy      1 GAACGAGAAAGTATACGCTACAGACAGTGAATAATGTTGCTGCGGCTAAGAAAA 60
Db      14 GAACGAGAAAGTATACGCTACAGACAGTGAATAATGTTGCTGCGGCTAAGAAAA 73
Qy      61 CTGTGTGCTTACCAACCCGAGAGGCTTGAAGAGAGCCCACTCCAGCTTCTTAAACGA 120
Db      74 CTGTGTGCTTACCAACCCGAGAGGCTTGAAGAGAGCCCACTCCAGCTTCTTAAACGA 133
Qy      121 GAGGTGCGAGACTGAGACTTCCAGCCCACTGCGTCCAGGCTTGTAGGAAAGAGAG 180
Db      134 GAGGTGCGAGACTGAGACTTCCAGCCCACTGCGTCCAGGCTTGTAGGAAAGAGAG 193
Qy      181 CCAAGGAGCGGCTCTCCGCGCTCCAGGAGCCCGAGCTTGTAGGCTGCTCCGCGCTG 240
Db      194 TCAAGGAGCGGCTCTCCGCGCTCCAGGAGCCCGAGCTTGTAGGCTGCTCCGCGCTG 253

```

QY 241 CGTGCAGCATCGGCGCGGCTGAGCATGACCTGTGGAACGGCGCTGACCTTTTATAC 300
 Db 254 CCGGAGCATCGGCGCGGCTGAGCATGACCTGTGGAACGGCGCTGACCTTTTATAC 313
 QY 301 CCCAGCCCCGAGATGCGGAGGCTTCAAGGCTTCACTGCTCATGTTATTTAGTGTTT 360
 Db 314 CCCAGCCCCGAGATGCGGAGGCTTCAAGGCTTCACTGCTCATGTTATTTAGTGTTT 373
 QY 361 TGGCTCTACAGAGACCTTCTGCTCATGTTGCGGGGATCCGTGAGCATGCGGCTGAGT 420
 Db 374 TGGCTCTACAGAGACCTTCTGCTCATGTTGCGGGGATCCGTGAGCATGCGGCTGAGT 433
 QY 421 TTTGGTTGAGAGTCTTCTGCTCATGTTGCGGGGATCCGTGAGCATGCGGCTGAGT 480
 Db 434 TTTGGTTGAGAGTCTTCTGCTCATGTTGCGGGGATCCGTGAGCATGCGGCTGAGT 493
 QY 481 TCAGTCAGAGATGTTCTGTTGAGTACAGTGAACCAACATCTTCAAAAGCTTCAGCG 540
 Db 494 TCAGTCAGAGATGTTCTGTTGAGTACAGTGAACCAACATCTTCAAAAGCTTCAGCG 553
 QY 541 CAGCGCGCTTACAGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
 Db 554 CAGCGCGCTTACAGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 613
 QY 601 TCACAGGAGACCCAGTGCATCAGTGAACGAGACATTTGACTCAACAGAGAGTCACT 660
 Db 614 TCACAGGAGACCCAGTGCATCAGTGAACGAGACATTTGACTCAACAGAGAGTCACT 673
 QY 661 GGGCTGGAAGAAATTACCGCGGAGTACGGAACGAGATGAGAGAGGCTGCGCG 720
 Db 674 GGGCTGGAAGAAATTACCGCGGAGTACGGAACGAGATGAGAGAGGCTGCGCG 733
 QY 721 ACCAGTGTCTTACCTGCGGAGAGATTTACACCGAGTACCTTGGGCTGTACACAC 780
 Db 734 ACCAGTGTCTTACCTGCGGAGAGATTTACACCGAGTACCTTGGGCTGTACACAC 793
 QY 781 AGTACACCTGCGGAGAGATTTACACCGAGTACCTTGGGCTGTACACAC 840
 Db 794 AGTACACCTGCGGAGAGATTTACACCGAGTACCTTGGGCTGTACACAC 853
 QY 841 TCCTCTCAACGATGCTGCTTCAACCGCGGCTTCAACGAGGCTTGGAGCATGCTGA 900
 Db 854 TCCTCTCAACGATGCTGCTTCAACCGCGGCTTCAACGAGGCTTGGAGCATGCTGA 913
 QY 901 CCACCGGAGCTTTCGCGCTTTCGCGGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCG 960
 Db 914 CCACCGGAGCTTTCGCGCTTTCGCGGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCG 973
 QY 961 TCGGCCGCTCCGCTAGGCTCCCTCGCGGCTCAACCTCAGTACGCGCGCTTTCGCG 1020
 Db 974 TCGGCCGCTCCGCTAGGCTCCCTCGCGGCTCAACCTCAGTACGCGCGCTTTCGCG 1033
 QY 1021 TCACGCTGAGCAACGCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1080
 Db 1034 TCACGCTGAGCAACGCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1093
 QY 1081 ATGTTGCGGAGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1139
 Db 1094 ATGTTGCGGAGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1153
 QY 1140 GAGAGAGGCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1199
 Db 1154 GAGAGAGGCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1212
 QY 1200 GAC-TTAAATGATCACTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1258
 Db 1213 GAC-TTAAATGATCACTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1272
 QY 1259 CTTGGAGCATGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1318
 Db 1273 CTTGGAGCATGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1332
 QY 1319 AAGGAGCATGAGGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1378

Db 1333 AAGGAGCATGAGGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1392
 QY 1379 CTTGGAGCATGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1421
 Db 1393 CTTGGAGCATGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1435
 RESULT 8
 ADCC20289
 ID ADCC20289 standard; DNA; 1460 BP.
 XX
 AC ADCC20289;
 XX
 DT 18-DEC-2003 (first entry)
 XX
 DE Human secreted protein coding sequence #228.
 XX
 KW gene therapy; human; secreted protein; haemopoietic disorder;
 KW haematological disorder; anaemia; haemophilia; inflammatory disorder;
 KW inflammatory bowel disease; Crohn's disease; neoplastic disease; cancer;
 KW leukemia; wound healing; epithelial cell proliferation disorder;
 KW immune disorder; autoimmune disorder; asthmatic disorder;
 KW cardiovascular disorder; atherosclerosis; myocarditis;
 KW infectious disease; HIV; AIDS; endocrine disorder; diabetes;
 KW gastrointestinal disorder; duodenal ulcer; gastroenteritis; gene; ds.
 XX
 OS Homo sapiens.
 XX
 PN W0200292787-A2.
 XX
 PD 21-NOV-2002.
 XX
 PF 26-MAR-2002; 2002WO-US009257.
 XX
 PR 27-MAR-2001; 2001US-0278650P.
 PR 12-SEP-2001; 2001US-00950082.
 PR 12-SEP-2001; 2001US-00950083.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Ruben SM;
 XX
 DR WPI; 2003-129287/12.
 XX
 PT New human secreted proteins and nucleic acid molecules, useful for
 PT preparing a diagnostic or pharmaceutical composition for diagnosing,
 PT preventing or treating hematopoietic or hematologic disorders, e.g.
 PT anemia or hemophilia.
 XX
 PS Claim 1, SEQ ID NO 238; 1512pp; English.
 XX
 CC The invention comprises the amino acid and coding sequences of human
 CC secreted proteins. The DNA and protein sequences of the invention are
 CC useful for detecting, preventing, diagnosing, prognosticating, treating
 CC or ameliorating; hematopoietic or haematological disorders (e.g. anaemia
 CC and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease
 CC and Crohn's disease); neoplastic disease (e.g. cancer and leukemia);
 CC wound healing and disorders of epithelial cell proliferation; immune
 CC disorders (e.g. autoimmune disorders and asthmatic disorders);
 CC cardiovascular disorders (e.g. atherosclerosis and myocarditis);
 CC infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);
 CC and gastrointestinal disorders (e.g. duodenal ulcers and
 CC gastroenteritis). The present DNA sequence encodes a human secreted
 CC protein of the invention.
 XX
 SQ Sequence 1460 BP; 292 A; 472 C; 398 G; 298 T; 0 U; 0 Other;
 XX
 Query Match 96.8%; Score 1375.8; DB 10; Length 1460;
 Best Local Similarity 99.38; Pred. No. 0;
 Matches 1413; Conservative 0; Mismatches 7; Indels 3; Gaps 3;
 QY 1 GAACGAGAAATGATACGCTTACAGACAGTGAAGAAATGTTGCTTCCGCGCTAGAAAAA 60

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Db 14 GAACGAGAAAGTAAACGCTACAGACAGAGAAATATGTTGCTGCGCGGCTAGAAAA 73
Qy 61 CTCTGTGGTACCAACCCGAGAGCTTTGAGAGAGAGCCCACTTCCATACGGA 120
Db 74 CTCTGTGGTACCAACCCGAGAGCTTTGAGAGAGAGCCCACTTCCATACGGA 133
Qy 121 GAGGTGACGAGACTCAGACTTCAACGAGCCACTCGTCCAGGCTTTGACGAAAGAGAG 180
Db 134 GAGGTGACGAGACTCAGACTTCAACGAGCCACTCGTCCAGGCTTTGACGAAAGAGAG 193
Qy 181 CCAAGAGAGCGGCTCTCCGCGTCAAGGAGAGCCCACTTGTGACTTGTGCTGCGCGCTG 240
Db 194 TCAAGAGAGCGGCTCTCCGCGTCAAGGAGAGCCCACTTGTGACTTGTGCTGCGCGCTG 253
Qy 241 CGTGACGAGACTCGGCGCGGCTGAGAGATACCTGTGTGAGAAAGGAGAGCTTTTACG 300
Db 254 CGTGACGAGACTCGGCGCGGCTGAGAGATACCTGTGTGAGAAAGGAGAGCTTTTACG 313
Qy 301 CCAAGAGAGCGGAGAGGAGGCTTCAAGGAGTCACTGCTCATGTTATTTAGTGTGTT 360
Db 314 CCAAGAGAGCGGAGAGGAGGCTTCAAGGAGTCACTGCTCATGTTATTTAGTGTGTT 373
Qy 361 TGGCTTACAGAGAGCTTCTGCTCATCTTTCGCGGAGATCCGTTGAGCACTGCGCGTGT 420
Db 374 TGGCTTACAGAGAGCTTCTGCTCATCTTTCGCGGAGATCCGTTGAGCACTGCGCGTGT 433
Qy 421 TTTGTTGGTGAAGTCTTCTCAAGTCTGTTCATAGCCCAAAATTTGGTGGCTGAGACT 480
Db 434 TTTGTTGGTGAAGTCTTCTCAAGTCTGTTCATAGCCCAAAATTTGGTGGCTGAGACT 493
Qy 481 TCAGTGCAGAAATGTTCTGTGGTACAGTGAACCAACATCTTCAAAAGCTTCGAGCG 540
Db 494 TCAGTGCAGAAATGTTCTGTGGTACAGTGAACCAACATCTTCAAAAGCTTCGAGCG 553
Qy 541 CAGCGCGGCTTACAGCGCGGCTGTGCTGTGCTGCGGCTTGAAGGAGATTAATATTAC 600
Db 554 CAGCGCGGCTTACAGCGCGGCTGTGCTGTGCTGCGGCTTGAAGGAGATTAATATTAC 613
Qy 601 TCACAGGAGAGCCGAGAGTCAAGCTGAAGAGACATTAATCAACAGAGAGTTACCT 660
Db 614 TCACAGGAGAGCCGAGAGTCAAGCTGAAGAGACATTAATCAACAGAGAGTTACCT 673
Qy 661 GCGGCTTGAAGAGATTAACCGCGAGAGTACCGAGACGACTGAGAGAGGAGCTGCGG 720
Db 674 GCGGCTTGAAGAGATTAACCGCGAGAGTACCGAGACGACTGAGAGAGGAGCTGCGG 733
Qy 721 ACCGAGTGTCTTACCTGCGGAGAGATTAACCGAGAGTACCTTGGCGCTGTACAC 780
Db 734 ACCGAGTGTCTTACCTGCGGAGAGATTAACCGAGAGTACCTTGGCGCTGTACAC 793
Qy 781 AGTACACAGCTGGGAGAGCACTAGAGCTGGGAGAGCTTATGAGGAGGTTCTGCTTGG 840
Db 794 AGTACACAGCTGGGAGAGCACTAGAGCTGGGAGAGCTTATGAGGAGGTTCTGCTTGG 853
Qy 841 TCTCTTCAACAGTGTCTCTTCCAGCGCGGCTGCTTCAAGAGGCTTGTGACTGTGA 900
Db 854 TCTCTTCAACAGTGTCTCTTCCAGCGCGGCTGCTTCAAGAGGCTTGTGACTGTGA 913
Qy 901 CCAAGAGAGCTTTCGCGCTTTCGCGGAGTTCGCTTTCGCTTCACTTCAAGCTGCGCG 960
Db 914 CCAAGAGAGCTTTCGCGCTTTCGCGGAGTTCGCTTTCGCTTCACTTCAAGCTGCGCG 973
Qy 961 TCTGCGCGCTGCGGCTTTCGCGGAGTTCGCGGAGTTCGCTTTCGCTTCACTTCAAG 1020
Db 974 TCTGCGCGCTGCGGCTTTCGCGGAGTTCGCGGAGTTCGCTTTCGCTTCACTTCAAG 1033
Qy 1021 TCAAGCTGAGAGAGCGGCTTTCGCGGAGTTCGCTTTCGCGGAGGAGCTTGTGAGTCT 1080
Db 1034 TCAAGCTGAGAGAGCGGCTTTCGCGGAGTTCGCTTTCGCGGAGGAGCTTGTGAGTCT 1093
Qy 1081 ATGTTTGGCGGAGAGGCTTTCGCGGAGTTCGCGGAGGAGGAGAGTGTG-AGCCAG 1139
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Db 1094 ATGTTTGGCGGAGAGGCTTTCGCGGAGTTCGCGGAGGAGGAGGAGGAGTGTGAG 1153
Qy 1140 GAGAGAGGAGGAGGCTTTCGCGGAGTTCGCGGAGGAGGAGGAGGAGGAGGAGTGTGAG 1199
Db 1154 AAGAGAGGAGGAGGCTTTCGCGGAGTTCGCGGAGGAGGAGGAGGAGGAGGAGTGTGAG 1212
Qy 1200 GAC-TTAAATGATATACACCACTTACCTGTGAGAGGAGGAGGAGGAGGAGGAGTGTGAG 1258
Db 1213 GACTTTAAATGATATATACCACTTACCTGTGAGAGGAGGAGGAGGAGGAGGAGTGTGAG 1272
Qy 1259 CTTGGAGCATCGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGTGAG 1318
Db 1273 CTTGGAGCATCGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGTGAG 1332
Qy 1319 AAGGAGCATGAGCGGCTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGTGAG 1378
Db 1333 AAGGAGCATGAGCGGCTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGTGAG 1392
Qy 1379 CTTGGGAGCATCTGTAATTAACCTTTTCTTTTGTGTTT 1421
Db 1393 CTTGGGAGCATCTGTAATTAACCTTTTCTTTTGTGTTT 1435

RESULT 9
ABZ67235
ID ABZ67235 standard; cDNA; 1460 BP.
XX
XX ABZ67235;
XX
XX 26-MAR-2003 (first entry)
XX
DE Human secreted protein encoding cDNA SEQ ID NO 355.
XX
XX Human; secreted protein; nontropic; neuroprotective; cytostatic;
XX virucide; dermatological; immunosuppressive; anti-inflammatory; anti-HIV,
XX vulnerrary; antibacterial; antiparkinsonian; antiskinking; antianemic;
XX antiallergic; cancer; antirheumatic; hepatotropic; cerebroprotective;
XX antiinflammatory; antiallergic; antidiabetic; antilucer; anticonvulsant;
XX antifungal; antiparasitic; cardiac; immune disorder; infection; vaccine;
XX cardiovascular disorder; neurological diseases; nephroretropic;
XX gene therapy; gene; chromosome 9p21; ds.
XX
XX Homo sapiens.
XX
XX WO20027186-A2.
XX
XX 03-OCT-2002.
XX
XX 26-MAR-2002; 2002MO-US009188.
XX
XX 27-MAR-2001; 2001US-0278650P.
XX
XX 12-SEP-2001; 2001US-00950082.
XX
XX 12-SEP-2001; 2001US-00950083.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM;
XX
XX WPI; 2003-040583/03.
XX
XX P-PSDB; ABP99814.
XX
XX
XX New human secreted proteins encoded by genes contained in cDNA clones
XX (e.g. HGCAC19), useful for preventing, treating or diagnosing e.g. AIDS,
XX multiple sclerosis, herpes virus, leukemia, tick-borne encephalitis or
XX West Nile fever.
XX
XX Claim 7; Page 1353; 2423pp; English.
XX
XX The invention relates to novel human genes (ABZ6891-ABZ68209) and the
XX encoded secreted proteins (ABP9470-ABP9872) useful for preventing,
XX treating or ameliorating medical conditions e.g. by protein or gene
XX therapy. The genes are isolated from a range of human tissues disclosed
XX in the specification. The nucleic acids, proteins, antibodies and
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CC (ant)agonists are useful in the diagnosis, treatment and prevention of:
 CC (a) cancer, e.g. breast and ovarian cancer and other cancers of the
 CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
 CC lung or urogenital; (b) immune disorders e.g. Addison's disease,
 CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
 CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
 CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as
 CC myocardial ischaemia; (d) wound healing; (e) neurological diseases e.g.
 CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,
 CC bacterial, fungal and parasitic infections
 CC XX

SQ Sequence 1460 BP; 292 A; 472 C; 398 G; 298 T; 0 U; 0 Other;

Query Match 96.8%; Score 1375.8; DB 10; Length 1460;
 Best Local Similarity 99.3%; Pred. No. 0;
 Matches 1413; Conservative 0; Mismatches 7; Indels 3; Gaps 3;

QY 1 GAACGAGAAAGTAAAGGCTACAGACAGTGAATAATGTTGCTGCGCGGCTAGAAAAA 60
 DB 14 GAACGAGAAAGTAAAGGCTACAGACAGTGAATAATGTTGCTGCGCGGCTAGAAAAA 73
 QY 61 CTCTGTGCTGACCAACCCGAGCGTTGAGAGAGAGCCGACCTTCAGCTTCTTTAAGGA 120
 DB 74 CTCTGTGCTGACCAACCCGAGCGTTGAGAGAGAGCCGACCTTCAGCTTCTTTAAGGA 133
 QY 121 GAGGTGACAGACTCAAGCTTCAACAGCCGCTGGTCCGAGCCTTGTAGCGAAAGAGAG 180
 DB 134 GAGGTGACAGACTCAAGCTTCAACAGCCGCTGGTCCGAGCCTTGTAGCGAAAGAGAG 193
 QY 181 CCAAGAGCGGCTCTCCCGGCTCAGGAGAGCCGAGCTTGTGCTGCTGCGCGGCTG 240
 DB 194 TCAAGAGCGGCTCTCCCGGCTCAGGAGAGCCGAGCTTGTGCTGCTGCGCGGCTG 253
 QY 241 CGTGACAGACTCGGCGGCTGAGAGAGAGCCGAGCTTGTGCTGCTGCGCGGCTG 300
 DB 254 CGTGACAGACTCGGCGGCTGAGAGAGAGCCGAGCTTGTGCTGCTGCGCGGCTG 313
 QY 301 CCGAGCGGCGGCTGAGAGAGAGCCGAGCTTGTGCTGCTGCGCGGCTG 360
 DB 314 CCGAGCGGCGGCTGAGAGAGAGCCGAGCTTGTGCTGCTGCGCGGCTG 373
 QY 361 TGGCTGACAGAGAGCTTCTGCTCATCTTGGCGGAGATCCGAGGCACTCGCGCTGGT 420
 DB 374 TGGCTGACAGAGAGCTTCTGCTCATCTTGGCGGAGATCCGAGGCACTCGCGCTGGT 433
 QY 421 TTTGGTGTGAGAGTCTTCTCAGTCTGTTCAATGAGCGAGAAATGTTGGCTGTGCACT 480
 DB 434 TTTGGTGTGAGAGTCTTCTCAGTCTGTTCAATGAGCGAGAAATGTTGGCTGTGCACT 493
 QY 481 TCAATGACAGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 540
 DB 494 TCAATGACAGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 553
 QY 541 CAGGCGGCTTACAGCGCGTGTGCTGCTGCGGCGCTGAGAGGCAATTAATTAAC 600
 DB 554 CAGGCGGCTTACAGCGCGTGTGCTGCTGCGGCGCTGAGAGGCAATTAATTAAC 613
 QY 601 TCAAGGAGACCCGAGTCACTGATGAGAGAGCAATTAATTAATTAATTAATTAATTA 660
 DB 614 TCAAGGAGACCCGAGTCACTGATGAGAGAGCAATTAATTAATTAATTAATTAATTA 673
 QY 661 GGGCTTGAAGAAGATTAAGCGCGGAGTACGAGAAAGCACTGAGAAAGGAGGCTGCGCG 720
 DB 674 GGGCTTGAAGAAGATTAAGCGCGGAGTACGAGAAAGCACTGAGAAAGGAGGCTGCGCG 733
 QY 721 ACCAGAGCTCTACCTGCGGAGAGTTCACAGAGTACGCTTGGCGCTGTACACAC 780
 DB 734 ACCAGAGCTCTACCTGCGGAGAGTTCACAGAGTACGCTTGGCGCTGTACACAC 793
 QY 781 AGTACACCTGCGGAGACCTACGCTGCGGAGAGTTCAGTTCAGTTCAGTTCAGTTCAG 840
 DB 794 AGTACACCTGCGGAGACCTACGCTGCGGAGAGTTCAGTTCAGTTCAGTTCAGTTCAG 853

QY 841 TCCTCTCAAGCTGCTCTCTCTCAAGCGCGCGCCCGCTTACGAGAGCTGAGCACTGCTGA 900
 DB 854 TCCTCTCAAGCTGCTCTCTCTCAAGCGCGCGCCCGCTTACGAGAGCTGAGCACTGCTGA 913
 QY 901 CCAACGAGCTTCTGCGGCTTCTGCGGAGTCTTGGCTTGGCTTCACTTACGAGTGGCGG 960
 DB 914 CCAACGAGCTTCTGCGGCTTCTGCGGAGTCTTGGCTTGGCTTCACTTACGAGTGGCGG 973
 QY 961 TCTGCGGCTTCTGCGGAGTCTCTGCGGAGTCACTGAGTACGAGGAGCGCTTGGG 1020
 DB 974 TCTGCGGCTTCTGCGGAGTCTCTGCGGAGTCACTGAGTACGAGGAGCGCTTGGG 1033
 QY 1021 TCAAGCTGCAACCGGAGCTCTGCTGCTCTCTCTCTGAGAGGAGCGCTGAGTCTCAAGT 1080
 DB 1034 TCAAGCTGCAACCGGAGCTCTGCTGCTCTCTCTCTGAGAGGAGCGCTGAGTCTCAAGT 1093
 QY 1081 ATGTTGCGCCAGCGCTCTTTCGACCTTCTGAGACCAAGCGCAAGAGTGC-AGCCAG 1139
 DB 1094 ATGTTGCGCCAGCGCTCTTTCGACCTTCTGAGACCAAGCGCAAGAGTGCAG 1153
 QY 1140 GAGAGAGGAGGCTCACTCTTATCTTATCT-AGAGACCACTGACAGAGAGCGCTCCCA 1199
 DB 1154 AAGAGGAGGAGGCTCACTCTTATCT-AGAGACCACTGACAGAGAGCGCTTCCCA 1212
 QY 1200 GAC-TTAAATGATACACACTAACCTGTAGAGGAGGAGCCCAATCTGACTCTTCCCGC 1258
 DB 1213 GACTTTAAATGATACACACTAACCTGTAGAGGAGGAGCCCAATCTGACTCTTCCCGC 1272
 QY 1259 CTTGGACATCGAGGCGCGGAGAGAGTGC-AGGCTGCGGAGAGAGTCTCAAG 1318
 DB 1273 CTTGGACATCGAGGCGCGGAGAGAGTGC-AGGCTGCGGAGAGAGTCTCAAG 1332
 QY 1319 AAGGAGCATGAGGCGCTGCGGAGAGGCTGAGACATCGAGGAGAGGAGAGTCT 1378
 DB 1333 AAGGAGCATGAGGCGCTGCGGAGAGGCTGAGACATCGAGGAGAGGAGAGTCT 1392
 QY 1379 CTTGGGCGCATCTGTAATTAACCTTTTCTTTTGTGTTTTT 1421
 DB 1393 CTTGGGCGCATCTGTAATTAACCTTTTCTTTTGTGTTTTT 1435

RESULT 10
 ADU01671
 ID ADU01671 standard; cDNA; 960 BP.
 AC ADU01671;
 XX 27-JAN-2005 (first entry)
 DT XX
 DE Novel human polynucleotide seqid 138.
 XX cytoabatic; antiproliferic; antiinflammatory; gene therapy; Nanodisc;
 XX proliferative disorder; inflammatory disorder; immune disorder;
 KM metabolic disorder; bone disorder; CNS disorder; cancer; psoriasis;
 KM ulcerative colitis; human; gene; ss.
 XX
 OS Homo sapiens.
 PN
 XX W02004093804-A2.
 PD 04-NOV-2004.
 XX
 PF 19-APR-2004; 2004MO-US012047.
 XX
 PR 18-APR-2003; 2003US-0463708P.
 PR 18-APR-2003; 2003US-0463732P.
 PR 02-MAY-2003; 2003US-0467199P.
 PR 02-MAY-2003; 2003US-0467230P.
 PR 19-MAY-2003; 2003US-0471306P.
 PR 19-MAY-2003; 2003US-0471336P.
 PR 08-JUL-2003; 2003US-0485223P.
 PR 08-JUL-2003; 2003US-0485224P.
 PR 14-JUL-2003; 2003US-0486446P.

PR 14-JUL-2003; 2003US-0486480P.
 PR 08-AUG-2003; 2003US-0493573P.
 PR 08-AUG-2003; 2003US-0493577P.
 PR 08-SEP-2003; 2003US-0505059P.

(FIVE-) FIVE PRIME THERAPEUTICS INC.

Lee E, Hestir K, Chu K, Masuoka L, Williams LT;
 MPI; 2004-775861/76.
 P-PSDB; ADU02403.

XX New first nucleic acid molecule comprising a polynucleotide sequence
 PT given in the specification, useful in preparing a composition for
 PT diagnosing or treating e.g., cancer, psoriasis or ulcerative colitis.

PS Claim 1, SEQ ID NO 138; 291pp; English.

CC The invention describes a new first nucleic acid molecule comprising a
 CC polynucleotide sequence given in the specification. Also described are:
 CC an animal injected with the nucleic acid molecule; a second nucleic acid
 CC molecule comprising a second polynucleotide sequence that is at least
 CC about 70, 80, 90 or 95% homologous to the first nucleic acid molecule or
 CC that hybridises to the first polynucleotide sequence under high
 CC stringency conditions; a vector comprising the nucleic acid molecule and
 CC a promoter that drives the expression of the nucleic acid molecule; a
 CC host cell transfected, transduced or infected with the
 CC nucleic acid molecule; a nucleic acid composition comprising the nucleic acid
 CC a buffer and one or more compositions comprising the nucleic acid
 CC molecule, vector or host cell; a substantially purified polypeptide; an
 CC animal injected with the polypeptide; a polypeptide composition
 CC comprising the polypeptide molecule and a carrier or buffer; a cell
 CC culture medium comprising the polypeptide or transfected cells
 CC transfected with the polynucleotide; making a transformed, transduced,
 CC transduced, or infected host cell; synthesising Nanodiscs simultaneously
 CC and for synthesising a series of simultaneously-synthesised Nanodiscs
 CC sequentially utilising a dynamic system; preparing a hydrophobic protein
 CC for determination of crystal structure; immunising a non-human animal;
 CC screening for modulators of hydrophobic protein activity; a diagnostic
 CC kit; determining the presence of the nucleic acid molecule or its
 CC complement; determining the presence of an antibody to the polypeptide in
 CC a sample; an antibody specifically recognising, binding to or modulating
 CC the biological activity of at least one polypeptide encoded by a nucleic
 CC acid molecule or its biologically active fragment; an antibody
 CC composition comprising the antibody and a carrier; a bacteriophage, where
 CC the antibody is displayed on the bacteriophage; a bacterial cell
 CC comprising the bacteriophage; a non-human animal injected with the
 CC antibody composition; a host cell that secretes the antibody; making an
 CC antibody; diagnosing a disease, disorder, syndrome, or condition
 CC comprising cancer, or proliferative, inflammatory, immune, metabolic, or
 CC bone, CNS, genetic, bacterial and viral diseases, disorders, syndromes or
 CC conditions in a patient; a modulator composition comprising a modulator
 CC and a carrier; gene therapy; prophylactic or therapeutic treatment of a
 CC subject; an isolated modified cell comprising at least one first
 CC heterologous nucleic acid molecule, where the first heterologous nucleic
 CC acid molecule comprises a first polynucleotide sequence that encodes a
 CC first polypeptide; a non-human animal deficient in the polypeptide or
 CC that over-expresses the polypeptide; isolated tissues derived from the
 CC non-human animal; and one or more cells derived from the non-human
 CC animal. The nucleic acid is useful in preparing a composition for
 CC diagnosing or treating e.g., cancer, psoriasis or ulcerative colitis.
 CC This sequence encodes a novel human polypeptide of the invention.

XX Sequence 960 BP; 168 A; 321 C; 260 G; 211 T; 0 U; 0 Other;

Query Match 67.4%; Score 958.4; DB 13; Length 960;
 Best Local Similarity 99.9%; Pred. No. 1.8e-229;
 Matches 959; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 ATGACCTGTGGAACGGGCTACTGCTTTTAAACCCCAAGCCCGGATGCGGAGGCTTC 326
 DB 1 ATGACCTGTGGAACGGGCTACTGCTTTTAAACCCCAAGCCCGGATGCGGAGGCTTC 60

QY 327 AGCGTTCACATGCTCATGTTATTCTAGTGTGCTCTAGACGACGATTCCTGCTC 386
 DB 61 AGCGTTCACATGCTCATGTTATTCTAGTGTGCTCTAGACGACGATTCCTGCTC 120
 QY 387 ATCTTGGCGGGGATCCGTGGCCACTCGCGCTGTGTTGGTGTGAGAGTTCTTCACT 446
 DB 121 ATCTTGGCGGGGATCCGTGGCCACTCGCGCTGTGTTGGTGTGAGAGTTCTTCACT 180
 QY 447 CTGTTCAATAGGCGGAAATTGTGCTGTGACCTTCAGTGCAGATGTTGTTGGTGTGACA 506
 DB 181 CTGTTCAATAGGCGGAAATTGTGCTGTGACCTTCAGTGCAGATGTTGTTGGTGTGACA 240
 QY 507 GTGAACACCAACATCTCTACAAAGCCTTCAGCGAGCGCGGTTACAGCCCGTCCGT 566
 DB 241 GTGAACACCAACATCTCTACAAAGCCTTCAGCGAGCGCGGTTACAGCCCGTCCGT 300
 QY 567 CTGCTGTGGGCTGTGAGGAGCTTAATTATACCTCAAGAGGACCCAGTGATGATGCTG 626
 DB 301 CTGCTGTGGGCTGTGAGGAGCTTAATTATACCTCAAGAGGACCCAGTGATGATGCTG 360
 QY 627 AACGAGACCAATTGACTTACAAAGAGGAGTTACCTGCGCTGTGAAGAAATTACCGCG 686
 DB 361 AACGAGACCAATTGACTTACAAAGAGGAGTTACCTGCGCTGTGAAGAAATTACCGCG 420
 QY 687 GAGTACGCGAAGCACTGAGAGAGGAGCTGCGAACCAAGTCTTACTGCGGAGAG 746
 DB 421 GAGTACGCGAAGCACTGAGAGAGGAGCTGCGAACCAAGTCTTACTGCGGAGAG 480
 QY 747 TTGACACGAGATGAGCTTGTGCGGCTGTACCAACAGTACACCTGCGGAGACATAGCG 806
 DB 481 TTGACACGAGATGAGCTTGTGCGGCTGTACCAACAGTACACCTGCGGAGACATAGCG 540
 QY 807 TCGGCGACGCTATGAGGAGCTTGTGCTTGTGCTCTTCCAAAGTGTGCTTCCAG 866
 DB 541 TCGGCGACGCTATGAGGAGCTTGTGCTTGTGCTCTTCCAAAGTGTGCTTCCAG 600
 QY 867 CCGGCGCGCTCTACGAGAGGCTGTGACCTGACCAACCGAGCCTTCCGCTCTTCGCG 926
 DB 601 CCGGCGCGCTCTACGAGAGGCTGTGACCTGACCAACCGAGCCTTCCGCTCTTCGCG 660
 QY 927 GTCTTGGCTTGGCTCTTCACTTGTAGCGCGCTGTGCGCGCTCGGCTAGGCTCTCC 986
 DB 661 GTCTTGGCTTGGCTCTTCACTTGTAGCGCGCTGTGCGCGCTCGGCTAGGCTCTCC 720
 QY 987 GCGCTACCACTCAGTACGAGCGCGCTTCTGAGTACGCTGCAACCGAGCTCTGTGTC 1046
 DB 721 GCGCTACCACTCAGTACGAGCGCGCTTCTGAGTACGCTGCAACCGAGCTCTGTGTC 780
 QY 1047 CTCTTCTGTGAGAGGCGCTGTGAGTCTTCAAGTATGTTGCGCCAGCGCTTTCGAC 1106
 DB 781 CTCTTCTGTGAGAGGCGCTGTGAGTCTTCAAGTATGTTGCGCCAGCGCTTTCGAC 840
 QY 1107 CTCTTGGACCAAAAGCGCCAAAGACTGACGACGAGAGAGGGGGCTCACCTTATCTTC 1166
 DB 841 CTCTTGGACCAAAAGCGCCAAAGACTGACGACGAGAGAGGGGGCTCACCTTATCTTC 900
 QY 1167 GGGGACCACTGACAAAGAGGCGCTTCCAGACTTAATATATATCAACCACTAACCTG 1226
 DB 901 GGGGACCACTGACAAAGAGGCGCTTCCAGACTTAATATATATCAACCACTAACCTG 960

RESULT 11

ACF58262

ACF58262 standard; DNA; 981 BP.

ACF58262; 12-FEB-2004 (first entry)

Human chr15:41,013.a nucleotide sequence.

DE Colon cancer; cytostatic; gene therapy; colorectal tumour; human; gene;
 KM de.

CC proteins, methods and compositions have cytostatic and immunostimulant
 CC activities. The nucleic acids may be used to treat disorders by gene
 CC therapy. The nucleic acids and proteins, methods and compositions are
 CC useful in diagnosing and treating cancer, e.g. cancer of the colon,
 CC pancreas, breast, ovary or lung, and in inducing an immune response. This
 CC polynucleotide represents a DNA sequence relating to the overexpressed
 CC nucleic acids of human cancer cells of the invention.

Sequence 981 BP; 171 A; 315 C; 294 G; 201 T; 0 U; 0 Other;

Query Match 54.1%; Score 768.8; DB 12; Length 981;
 Best Local Similarity 99.7%; Pred. No. 4.9e-182;
 Matches 770; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

QY 267 ATGACCCCTGTGGAAGGCGTACTGCTTTTAAACCCCGGCGGATGCGGAGGCTTC 326
DB 1 ATGACCCCTGTGGAAGGCGTACTGCTTTTAAACCCCGGCGGATGCGGAGGCTTC 60
QY 327 AGCGTTCCATGCTCATGCTATTTCTAGTGTGCTTGAAGAGGCTTCCTC 386
DB 61 AGCGTTCCATGCTCATGCTATTTCTAGTGTGCTTGAAGAGGCTTCCTC 120
QY 387 ATCTTGGCGGGGATCCGCGGCACTCGCGCTGTTTGGTGTGAAGATTCTTCAGT 446
DB 121 ATCTTGGCGGGGATCCGCGGCACTCGCGCTGTTTGGTGTGAAGATTCTTCAGT 180
QY 447 CTGTTCATAGGCGGAGAAATGTGCTGTGCACTTCAGTGAGAAATGTTGCGGAGCA 506
DB 181 CTGTTCATAGGCGGAGAAATGTGCTGTGCACTTCAGTGAGAAATGTTGCGGAGCA 240
QY 507 GTGAACCAACCAATCTTAAGAAAGCTTTCAGCGGAGCGGCTTACAGCCGCTGTGCGT 566
DB 241 GTGAACCAACCAATCTTAAGAAAGCTTTCAGCGGAGCGGCTTACAGCCGCTGTGCGT 300
QY 567 CTGCTCGTGGGCGCTGAGAGGCACTTAATATTAACAATGCAAGGAAACCCAGTGCATCAGT 626
DB 301 CTGCTCGTGGGCGCTGAGAGGCACTTAATATTAACAATGCAAGGAAACCCAGTGCATCAGT 360
QY 627 AACGAGCAATGTAATCAACAGAGAGTTCAGCGGCTGTGAAGAAATTAACGCGCG 686
DB 361 AACGAGCAATGTAATCAACAGAGAGTTCAGCGGCTGTGAAGAAATTAACGCGCG 420
QY 687 GAGTACGCAAGCGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 746
DB 421 GAGTACGCAAGCGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
QY 747 TTCAACCGAGTAGCCCTTGGCGCTGTACCAACAGTACCACTGAGGAGGAGGAGGAG 806
DB 481 TTCAACCGAGTAGCCCTTGGCGCTGTACCAACAGTACCACTGAGGAGGAGGAGGAG 540
QY 807 TTGGGCAACGCTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 866
DB 541 TTGGGCAACGCTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 600
QY 867 CCGGCGCGGCTTACGAGAGGCTGTGCACTGCAACCAAGGAGGAGGAGGAGGAGGAGGAG 926
DB 601 CCGGCGCGGCTTACGAGAGGCTGTGCACTGCAACCAAGGAGGAGGAGGAGGAGGAGGAG 660
QY 927 GTCTTGGGCTTGGGCTTCACTTCTTACGCTGCGCTGTGCGGCTTGGGCTTGGGCTT 986
DB 661 GTCTTGGGCTTGGGCTTCACTTCTTACGCTGCGCTGTGCGGCTTGGGCTTGGGCTT 720
QY 987 GCGCTACCACTAGTACGCGGCGGCTTCTGAGTACGCTGAGCAACGCGGCG 1038
DB 721 GCGCTACCACTAGTACGCGGCGGCTTCTGAGTACGCTGAGCAACGCGGCG 772

```

RESULT 13

AAA94624
 ID AAA94624 standard; DNA; 498 BP.
 XX
 AC AAA94624;
 XX

```

DT 11-JAN-2001 (first entry)
XX Human CASB618 EST.
DE
XX
XX
XX Bp10pe; human; CASB618; chromosome 15; tumour; vaccine; cancer; ovarian;
KW colon; autoimmune disease; HLA_A0201; expressed sequence tag; EST; ss.
XX
XX Homo sapiens.
XX
XX W0200053748-A2.
XX
XX 14-SEP-2000.
XX
XX 09-MAR-2000; 2000WO-BP002048.
XX
XX 11-MAR-1999; 99GB-00005607.
XX
XX 01-SEP-1999; 99GB-00020590.
XX
XX (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX
XX Bruck CEM, Cassart J, Coche T, Vinals Y De Basolac,
XX
XX WPI; 2000-572268/53.
XX
XX
XX New human CASB618 polypeptide, useful as a vaccine for prophylactic and
XX therapeutic treatment of cancers, particularly ovarian or colon cancer,
XX autoimmune diseases and related conditions.
XX
XX Claim 32; Page 62; 76pp; English.
XX
XX
XX The present sequence is an expressed sequence tag (EST) for human CASB618
XX protein. The gene for human CASB618 is thought to be located on
XX chromosome 15. CASB618 protein and epitopes of CASB618 protein (see
XX AAB26327 to AAB26395) are useful in diagnosing the occurrence of tumour
XX cells and in vaccines for prophylactic and therapeutic treatment of
XX cancers, particularly ovarian or colon cancer, autoimmune diseases and
XX related conditions
XX
XX
XX Sequence 498 BP; 97 A; 166 C; 137 G; 98 T; 0 U; 0 Other;

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Query Match 31.9%; Score 453; DB 3; Length 498;
 Best Local Similarity 99.6%; Pred. No. 4e-103;
 Matches 475; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

```

QY 947 CTCTAGGCGTGGCGGCTGCGCGGCTTCCGCTTGGCTCTCGGCTACCACTGAGTACG 1005
DB 1 CTCTAGGCGTGGCGGCTGCGCGGCTTCCGCTTGGCTCTCGGCTACCACTGAGTACG 60
QY 1006 -GCGCGGCTTCTGAGTACAGCTGGAACCGGCGTGTGCTGCTTCTCTGAGGAGGAGC 1064
DB 61 AGCGCGGCTTCTGAGTACAGCTGGAACCGGCGTGTGCTGCTTCTCTGAGGAGGAGC 120
QY 1065 GTGATGAGTCTCCAGTATGTTGCGGCGGAGGCTTGTGCAACCTTGTGACCAAGGCGC 1124
DB 121 GTGATGAGTCTCCAGTATGTTGCGGCGGAGGCTTGTGCAACCTTGTGACCAAGGCGC 180
QY 1125 AAGGACTGCAAGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1184
DB 181 AAGGACTGCAAGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
QY 1185 CAGGCGGCTTCCGAGACTTAATAATGTATACCACTAATCTGTGAGAGGAGGCCAAATCTG 1244
DB 241 CAGGCGGCTTCCGAGACTTAATAATGTATACCACTAATCTGTGAGAGGAGGCCAAATCTG 300
QY 1245 GACTCTTCTCCGCGCTTGGGAGCATGCGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1304
DB 301 GACTCTTCTCCGCGCTTGGGAGCATGCGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY 1305 AGGAGAGCTTCAAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1364
DB 361 AGGAGAGCTTCAAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 420
QY 1365 ACCAGGAGAAAGTCTCTGAGGAGGAGTCTGTAATAAATCTTTTCTTTGTTTTT 1421

```

Db 421 ACCAGGAAAGTCTCTGGGCGATCTGTAATTAACCTTTTCTTTGTTTTT 477

RESULT 14

ID AB274587 standard; DNA; 5033 BP.

AC AB274587;

DT 12-MAY-2003 (first entry)

XX Secreted protein gene 360 genomic fragment HUFCL31, SEQ ID NO:1734.

XX Human; secreted protein; cancer; tumour; hyperproliferative disorder;
 XX autoimmune disorder; inflammation; angiogenic diseases; AIDS;
 XX acquired immunodeficiency syndrome; hepatitis; anaemia; wound healing;
 XX drug screening; chromosome identification; chromosome mapping;
 XX cytotoxic; gene therapy; antiinflammatory; immunomodulator; anti-HIV;
 XX antineoplastic; vulnery; chromosome 9p21; gene; ds.

OS Homo sapiens.

XX MO200277013-A2.

PD 03-OCT-2002.

PF 26-MAR-2002; 2002MO-US009370.

XX 27-MAR-2001; 2001US-0278650P.

PR 12-SEP-2001; 2001US-00950082.

XX 12-SEP-2001; 2001US-00950083.

XX (HUMA-) HUMAN GENOME SCI INC.

PI Rosen CA, Ruben SM;

XX WPI; 2003-040578/03.

PT New human secreted proteins and nucleic acids, useful for detecting or
 PT treating cancer or other hyperproliferative disorders, autoimmune
 PT disorder, inflammatory disorders, HIV disease, hepatitis or anemia.
 XX

PS Disclosure; Page 2315-2316; 2474pp; English.

XX AB273281-AB273697 represent cDNAs corresponding to 391 human secreted
 CC protein genes, and ABP000947-ABP01363 represent the proteins they encode.
 CC AB273698-AB274687 represent human secreted protein genomic fragments. The
 CC invention also encompasses antibodies specific for the secreted proteins,
 CC the use of the secreted proteins in drug screening and recombinant
 CC vectors and host cells comprising a nucleic acid of the invention. The
 CC secreted proteins are thought to be involved in biological activities
 CC associated with cellular signalling, cellular differentiation, cell
 CC migration, prohormone activation and neurotransmitter activity. The
 CC secreted proteins, nucleic acids encoding them, antibodies or antibody
 CC fragments specific for the secreted proteins, and modulators of protein
 CC activity are useful for diagnosing or treating cancers or other
 CC hyperproliferative disorders. Additionally, the secreted proteins and
 CC their nucleic acids may also be used in the treatment of autoimmune
 CC disorders, inflammatory disorders, diseases involving angiogenesis, AIDS
 CC (acquired immunodeficiency syndrome), hepatitis, anaemia, and to promote
 CC wound healing. Nucleic acids of the invention may be used for chromosome
 CC identification, chromosome mapping, in gene therapy, for identifying
 CC individuals from minute biological samples, as hybridisation probes, and
 CC as molecular weight markers. The present sequence represents a human
 CC secreted protein genomic fragment referred to in the disclosure of the
 CC invention
 XX

XX Sequence 5033 BP; 1061 A; 1409 C; 1465 G; 1098 T; 0 U; 0 Other;

XX Query March 29.1%; Score 413.4; DB 8; Length 5033;

XX Best Local Similarity 98.6%; Pred. No. 6.7e-93;
 XX Matches 417; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GAACGAGAAAGTAAAGGCTACAGACAGTGAAGAAATAGTTTGGCTGCGCGCTAGAAAA 60

Db 5 GAACGAGAAAGTAAAGGCTACAGACAGTGAAGAAATAGTTTGGCTGCGCGCTAGAAAA 64

QY 61 CTCTGTGGTACCAACCCGAGGCGTTGAGAGACGCCCACTTCCAGCTTTAAACGA 120

Db 65 CTCTGTGGTACCAACCCGAGGCGTTGAGAGACGCCCACTTCCAGCTTTAAACGA 124

QY 121 GAGGTGCAAGTACGACTTTCACAGCCCACTCGGTCCAGGCTGTAGCAAAAGAGAG 180

Db 125 GAGGTGCAAGTACGACTTTCACAGCCCACTCGGTCCAGGCTGTAGCAAAAGAGAG 184

QY 181 CCAAGGAGCGGCTCTCCGCGTCCAGGAGCGCCCACTTGTGGCTTGGCCCGCTG 240

Db 185 CCAAGGAGCGGCTCTCCGCGTCCAGGAGCGCCCACTTGTGGCTTGGCCCGCTG 244

QY 241 CGTGAGCACTGCGCGCGGTGAGAGATGACCTGTGAAAGGCGTACTGCTTTTACC 300

Db 245 CGTGAGCACTGCGCGCGGTGAGAGATGACCTGTGAAAGGCGTACTGCTTTTACC 304

QY 301 CCCAGCCCCGCGATGCGCGGCTTCAAGGCTTCACTGCTCATTCCTTATTTAGTCTTT 360

Db 305 CCCAGCCCCGCGATGCGCGGCTTCAAGGCTTCACTGCTCATTCCTTATTTAGTCTTT 364

QY 361 TGGCTTACAGCAAGCTTCTGCTCATTCCTTGGCGGAGATCCGTGAGCACTGCGCTGGT 420

Db 365 TGGCTTACAGCAAGCTTCTGCTCATTCCTTGGCGGAGATCCGTGAGCACTGCGCTGGT 424

QY 421 TTT 423

Db 425 TGT 427

RESULT 15

ID ADC21005 standard; DNA; 5033 BP.

XX ADC21005;

XX 18-DEC-2003 (first entry)

XX Human secreted protein-related DNA sequence #423.

XX gene therapy; human; secreted protein; haemopoietic disorder;
 XX haematological disorder; anaemia; haemophilia; inflammatory disorder;
 XX inflammatory bowel disease; Crohn's disease; neoplastic disease; cancer;
 XX leukaemia; wound healing; epithelial cell proliferation disorder;
 XX immune disorder; autoimmune disorder; asthmatic disorder;
 XX cardiovascular disorder; atherosclerosis; myocarditis;
 XX infectious disease; HIV; AIDS; endocrine disorder; diabetes;
 XX gastrointestinal disorder; duodenal ulcer; gastroenteritis; gene; ds.

XX Homo sapiens.

XX MO200292787-A2.

XX 21-NOV-2002.

XX 26-MAR-2002; 2002MO-US009257.

XX 27-MAR-2001; 2001US-0278650P.

XX 12-SEP-2001; 2001US-00950082.

XX 12-SEP-2001; 2001US-00950083.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX WPI; 2003-129287/12.

XX New human secreted proteins and nucleic acid molecules, useful for
 XX preparing a diagnostic or pharmaceutical composition for diagnosing,

PT preventing or treating hematopoietic or hematologic disorders, e.g.
PT anemia or hemophilia.
XX
PS Disclosure, SEQ ID NO 959; 1512pp; English.
XX
CC The invention comprises the amino acid and coding sequences of human
CC secreted proteins. The DNA and protein sequences of the invention are
CC useful for detecting, preventing, diagnosing, prognosticating, treating
CC or ameliorating; hematopoietic or hematological disorders (e.g. anemia
CC and hemophilia); inflammatory disorders (e.g. inflammatory bowel disease
CC and Crohn's disease); neoplastic disease (e.g. cancer and leukemia);
CC wound healing and disorders of epithelial cell proliferation; immune
CC disorders (e.g. autoimmune disorders and asthmatic disorders);
CC cardiovascular disorders (e.g. atherosclerosis and myocarditis);
CC infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);
CC and gastrointestinal disorders (e.g. duodenal ulcers and
CC gastroenteritis). The present DNA sequence was used in the
CC exemplification of the invention.
XX
SQ Sequence 5033 BP; 1061 A; 1409 C; 1465 G; 1098 T; 0 U; 0 Other;
XX
Query Match 29.1%; Score 413.4; DB 10; Length 5033;
Best Local Similarity 98.6%; Pred. No. 6,7e-93;
Matches 417; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1 GAACGAGAAAGTACGCGCTACAGACAGTGAATAATGTTGCGCGCGCTAGAAAAA 60
DB 5 GAACGAGAAAGTACGCGCTACAGACAGTGAATAATGTTGCGCGCGCTAGAAAAA 64
QY 61 CTCTGTCGCTACCAACCCCAAGAGCGTTAGAGACACCCACCTCCACGCTTCTTAAAGGA 120
DB 65 CTCTGTCGCTACCAACCCCAAGAGCGTTAGAGACACCCACCTCCACGCTTCTTAAAGGA 124
QY 121 GAGGTGAGAGACTCAGACTTACCAAGCCCACTGGTCCAGCCTTGTAAGCAAAAGAGAG 180
DB 125 GAGGTGAGAGACTCAGACTTACCAAGCCCACTGGTCCAGCCTTGTAAGCAAAAGAGAG 184
QY 181 CCAAGAGACGCGCTCTCCCGGCTCAGAGCAAGCCCACTGCTGCTTGGCTGCGCGCTG 240
DB 185 CCAAGAGACGCGCTCTCCCGGCTCAGAGCAAGCCCACTGCTGCTTGGCTGCGCGCTG 244
QY 241 CGTGCAGCACTCGCGCGCGCTGACATGACCTCTGGAACGGCGTACTGCTTTTACC 300
DB 245 CGTGCAGCACTCGCGCGCGCTGACATGACCTCTGGAACGGCGTACTGCTTTTACC 304
QY 301 CCCAGCCCCGCGCATGCGCGAGCTTCAGAGGTTCCATGCGTCATCGTTATTCTAGTGT 360
DB 305 CCCAGCCCCGCGCATGCGCGAGCTTCAGAGGTTCCATGCGTCATCGTTATTCTAGTGT 364
QY 361 TGGCTTAGAGCAAGCTTCTGCTCATCTTTCGCGGGAATCCGTGACCACTGCGCGTGGT 420
DB 365 TGGCTTAGAGCAAGCTTCTGCTCATCTTTCGCGGGAATCCGTGACCACTGCGGTAAAGG 424
QY 421 TTT 423
DB 425 TGT 427

Search completed: January 21, 2006, 22:44:27
Job time : 940 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 21, 2006, 21:54:27 ; Search time 6251 Seconds
(without alignments)
10635.809 Million cell updates/sec

Title: US-09-937-059-57

Perfect score: 1421
Sequence: 1 gaaccaggaagaagtaacgcgt.....ctttttctttgtttttt 1421

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database:

EST.*
1: gb_est1.*
2: gb_est2.*
3: gb_est3.*
4: gb_hic.*
5: gb_est4.*
6: gb_est5.*
7: gb_est6.*
8: gb_est7.*
9: gb_gsa1.*
10: gb_gsa2.*
11: gb_gsa3.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	963	67.8	963	11	DQ050095 Homo sapi
2	701.6	49.4	769	11	DQ050096 Pan trogl
3	693	48.8	1594	4	AK018569 Mus muscu
4	657	46.2	1309	4	AK008816 Mus muscu
5	615.8	43.3	619	8	DN831248 MGCL.5.1.
6	610.6	43.0	619	8	DN831247 MGCL.5.1.
7	602	42.4	602	8	DN930503 MGCL.5.1.
8	600.8	42.3	622	8	DN930502 MGCL.5.1.
9	529.6	37.3	537	1	AI821606 nk08a11.x
10	526.4	37.0	717	7	CK971974 4087846.B
11	522.2	36.7	703	7	CK979918 4111631.B
12	512	36.0	515	1	AI826629 wk35e04.x
13	510	35.9	510	1	AI304327 q057h06.x
14	496	34.9	500	3	BP396416 BP396416
15	489.2	34.4	505	1	AI791844 nk08a11.y
16	468.8	33.0	704	7	CK963936 4078848.B
17	468.2	32.9	886	7	CU022684 CU022684
18	467.4	32.9	886	7	CU022684 CU022684
19	466	32.8	1014	5	BY708714 BY708714
20	456.8	32.1	716	7	CK981626 4114147.B
21	450	31.7	849	7	CU023383 CU023383
22	445.4	31.3	466	1	AA573825 nk08a11.s

c	23	443	31.2	446	1	AI984141	AI984141	wu1c02.x
c	24	433	30.5	434	1	AI991272	AI991272	wu41n04.x
c	25	432.2	30.4	826	3	BP435528	BP435528	BP435528
c	26	429	30.2	595	8	DN350567	DN350567	LB3579-0
c	27	418	29.4	876	3	BP440241	BP440241	BP440241
c	28	414	29.1	414	1	AA593860	AA593860	nn1f03.8
c	29	405	28.5	405	1	AI274929	AI274929	q149c11.x
c	30	404.4	28.5	411	1	AI983793	AI983793	wu20c09.x
c	31	400.2	28.2	405	1	AI346155	AI346155	qp43f12.x
c	32	391	27.5	538	1	AI660493	AI660493	w67h02.x
c	33	389.8	27.4	806	7	CK789912	CK789912	AGBNCOURT
c	34	388.4	27.3	538	5	AX517021	AX517021	EX517021
c	35	381	26.8	381	1	AI281211	AI281211	qK58e08.x
c	36	380.4	26.8	747	7	CU027584	CU027584	CJ027584
c	37	380	26.7	573	6	CB854121	CB854121	UI-CF-DU1
c	38	375.8	26.4	737	6	CB305399	CB305399	UI-CF-BN1
c	39	373.6	26.3	660	6	CF766127	CF766127	CBS004870
c	40	372.8	26.2	646	5	BY720747	BY720747	BY720747
c	41	360.4	25.4	713	6	CB171450	CB171450	JID602700
c	42	356.4	25.1	1032	10	AY418362	AY418362	Homo sapi
c	43	354.6	25.0	698	7	CK968084	CK968084	4083252.B
c	44	352.2	24.8	485	3	BP433235	BP433235	BP433235
c	45	350.4	24.7	671	7	CN789601	CN789601	4124079.B

ALIGNMENTS

RESULT 1	DQ050095	963 bp	DNA	linear	GSS 02-JUN-2005
LOCUS	DQ050095				
DEFINITION	Homo sapiens HC18097 gene, VIRTUAL TRANSCRIPT, partial sequence,				
ACCESSION	DQ050095				
VERSION	DQ050095.1	GI:69303294			
KEYWORDS	GSS.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Nielsen,R., Bustamante,C., Clark,A.G., Glanowski,S., Sackton,T.B., Hubisz,M.J., Piepel-Alon,A., Tanenbaum,D.M., Civeello,D., White,T.J., Sniinsky,J.J., Adams,M.D. and Cargill,M.				
TITLE	A Scan for Positively Selected Genes in the Genomes of Humans and Chimpanzees				
JOURNAL	(et) Plos Biol. 3 (6), E170 (2005)				
PUBMED	15869325				
REFERENCE	2 (bases 1 to 963)				
AUTHORS	Nielsen,R., Bustamante,C., Clark,A.G., Glanowski,S., Sackton,T.B., Hubisz,M.J., Piepel-Alon,A., Tanenbaum,D.M., Civeello,D., White,T.J., Sniinsky,J.J., Adams,M.D. and Cargill,M.				
TITLE	Direct Submission.				
JOURNAL	Submitted (05-MAY-2005) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA				
COMMENT	This sequence was made by sequencing genomic exons and ordering them based on alignment. Translation starts at the beginning of alignment.				
FEATURES	Location/Qualifiers				
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gene	/organism="Homo sapiens"				
ORIGIN	/mol_type="genomic DNA"				
Query Match	67.8%; Score 963; DB 11; Length 963;				
Best Local Similarity	100.0%; Pred. No. 6,3e-236;				
Matches	963; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				

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Db 181 CTGTTATAGGCGCAGAAATTGTGCTGTGCACTTCACTGACAGAAAGTTCGTGGTACA 240
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DEFINITION Pan troglodytes HCl8097 gene, VIRUAL TRANSCRIPT, partial sequence,

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VERSION DQ050096.1 GI:66903295
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SOURCE Pan troglodytes (chimpanzee)
ORGANISM Pan troglodytes
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Pan.
REFERENCE 1 (bases 1 to 769)
AUTHORS Nielsen,R., Bustamante,C., Clark,A.G., Gianowski,S., Sackton,T.B.,
Hubisz,M.J., Fedel-Alon,A., Tanenbaum,D.M., Civeello,D.,
White,T.J., Snihsny,J.J., Adams,M.D. and Cargill,M.
A Scan for Positively Selected Genes in the Genomes of Humans and
Chimpanzees
(ser) Plos Biol. 3 (6), E170 (2005)
JOURNAL 15869325
PUBMED 2 (bases 1 to 769)
REFERENCE Nielsen,R., Bustamante,C., Clark,A.G., Gianowski,S., Sackton,T.B.,
AUTHORS Hubisz,M.J., Fedel-Alon,A., Tanenbaum,D.M., Civeello,D.,
White,T.J., Snihsny,J.J., Adams,M.D. and Cargill,M.
Direct Submission
Submitted (05-MAY-2005) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
This sequence was made by sequencing genomic exons and ordering
them based on alignment. Translation starts at the beginning of
alignment.
FEATURES
Location/Qualifiers
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Best Local Similarity 91.5%; Pred. No. 7.9e-169;
Matches 704; Conservative 0; Mismatches 65; Indels 0; Gaps 0;
QY 267 ATGACCTGTGGAAAGGCGGACTGCTCTTTTACCCCGAGCCCGGAGATGCGGAGCTTC 326
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QY 327 AGCGTTCACTGCTCACTGTTATTTAGTGTGTTTGGCTCTAGACAGAGCTTCTGCTC 386
Db 61 AGCGTTCACTGCTCACTGTTATTTAGTGTGTTTGGCTCTAGACAGAGCTTCTGCTC 120
QY 387 ATCTTGGCCGGGATCCGTCGCGCACTGCGCGCTGCTTTTGGTGTGAGTCTTCTCACT 446
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QY 447 CTGTTATAGGCGCAGAAATTGTGCTGTGCACTTCACTGACAGAAAGTTCGTGGTACA 506
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Dn		541	TCGGCAACGCTATGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	600
Oy		867	CCGGCCCCCGCTCTACGAGAAGCTGTGCACTGCTGACACCGAAGCTTTGGGCTT	926
Dn		601	CCGGCCCCCGCNMNAACGAGGNNNAGCATNNNAGAACACCGGAGCTTTGGGCTT	660
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LOCUS				
DEFINITION		Mus musculus adult male colon cDNA, RIKEN full-length enriched library, clone:9030623N16 product:hypothetical protein, full insert sequence.		
ACCESSION		AKO18569		
VERSION		AKO18569.1	GI:12858338	
KEYWORDS		HTC; CAP trapper.		
SOURCE		Mus musculus (house mouse)		
ORGANISM		Mus musculus		
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
REFERENCE		1	Carninci, P. and Hayashizaki, Y. High-efficiency full-length cDNA cloning Meth. Enzymol. 303, 19-44 (1999) 10349636	
AUTHORS		2	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes Genome Res. 10 (10), 1617-1630 (2000) 11042159	
JOURNAL		3	Shibata, K., Itoh, M., Aizawa, K., Nagasaki, S., Sasaki, N., Carninci, P., Kono, H., Akiyama, J., Nishi, K., Kitamura, T., Tashiro, H., Itoh, M., Suni, N., Ishii, Y., Nakamura, S., Hazama, M., Nishino, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashihagi, K., Fujitake, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watabiki, K., Yoneda, Y., Imikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y. RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multichannel sequencer Genome Res. 10 (11), 1757-1771 (2000) 11076861	
PUBMED		4	The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium. Functional annotation of a full-length mouse cDNA collection Nature 409, 685-690 (2001) 11076861	
REFERENCE		5	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team. Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs Nature 420, 563-573 (2002) 6 (bases 1 to 1594)	
JOURNAL		6	Adachi, J., Aizawa, K., Akabira, S., Akiyama, T., Arai, A., Aono, H., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanagaki, T., Hata, A., Hayatsu, N., Hiramoto, K.,	
AUTHORS				

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QY 1417 TTTT 1421
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 LOCUS
 DEFINITION
 AK008816 1309 bp mRNA linear HTC 03-APR-2004
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 library, clone:2210403N03 product:hypothetical protein, full insert
 sequence.
 ACCESSION
 AK008816
 VERSION
 AK008816.1 GI:12843238
 KEYWORDS
 HTC; CAP trapper.
 SOURCE
 Mus musculus (house mouse)
 ORGANISM
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 PUBMED
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 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
 Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to
 prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 11042159
 3
 Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
 Kono, H., Akiyama, J., Nishi, K., Kitsumi, T., Tashiro, H., Itoh, M.,
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 Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuyama, S., Kawai, J.,
 Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system-384-format
 sequencing pipeline with 384 multicapillary sequencer
 Genome Res. 10 (11), 1757-1771 (2000)
 11076861
 4
 THE RIKEN Genome Exploration Research Group Phase II Team and the
 PANTOM Consortium.
 Functional annotation of a full-length mouse cDNA collection
 Nature 409, 685-690 (2001)
 5
 THE PANTOM Consortium and the RIKEN Genome Exploration Research
 Group Phase I & II Team.
 Analysis of the mouse transcriptome based on functional annotation
 of 60,770 full-length cDNAs
 Nature 420, 563-573 (2002)
 6 (bases 1 to 1309)
 Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Arai, A., Aono, H.,
 Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukumoto, Y.,
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 Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Kono, H., Kouda, M.,
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 Nomura, K., Nunazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C.,
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 Teijima, Y., Toya, T., Yamamura, T., Yasunishi, A., Yoshida, K.,
 Yoshino, M., Muramatsu, M., and Hayashizaki, Y.
 Direct Substitution
 Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of
 Physical and Chemical Research (RIKEN), Laboratory for Genome
 Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
 RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
 Kanagawa 230-0045, Japan (E-mail:genome-res@sc.riken.jp),

REFERENCE 1 (bases 1 to 619)
 AUTHORS Stevens, M., Wei, C., Gross, S.S., McPherson, J., and Brent, M.R.
 TITLE Exhaustive RT-PCR and sequencing of all novel TWINSKAN predictions
 JOURNAL in human
 COMMENT Unpublished (2005)
 Contact: Brent, MR
 Laboratory of Computational Genomics
 Washington University
 Campus Box 1045, One Brookings Dr., St. Louis, MO 63130, USA
 Tel: (314) 935-6621
 Email: brent@ese.wustl.edu

All products are PCR'd from first-strand cDNA made from pooled mRNA sources. PCR product is sequenced directly, typically from the PCR primers. All submitted sequences produced a high quality, spliced alignment to the genome or assembled into a contig that aligned to the genome. This alignment was not necessarily to the targeted locus. Legitimate, spliced sequences that resulted from mispriming to non-targeted cDNAs were also submitted. All data on all experiments can be found at <http://genes.cse.wustl.edu/rtcb/>.

FEATURES

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 ACCESSION MGCL.5.1.1.1.A11, mRNA sequence.
 VERSION DN831247
 KEYWORDS DN831247.1 GI:62639816
 SOURCE EST.
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.

REFERENCE 1 (bases 1 to 617)
 AUTHORS Stevens, M., Wei, C., Gross, S.S., McPherson, J., and Brent, M.R.
 TITLE Exhaustive RT-PCR and sequencing of all novel TWINSKAN predictions
 JOURNAL in human
 COMMENT Unpublished (2005)
 Contact: Brent, MR
 Laboratory of Computational Genomics
 Washington University
 Campus Box 1045, One Brookings Dr., St. Louis, MO 63130, USA
 Tel: (314) 935-6621
 Email: brent@ese.wustl.edu

All products are PCR'd from first-strand cDNA made from pooled mRNA sources. PCR product is sequenced directly, typically from the PCR primers. All submitted sequences produced a high quality, spliced alignment to the genome or assembled into a contig that aligned to the genome. This alignment was not necessarily to the targeted locus. Legitimate, spliced sequences that resulted from mispriming to non-targeted cDNAs were also submitted. All data on all experiments can be found at <http://genes.cse.wustl.edu/rtcb/>.

FEATURES

source

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ORIGIN

Query Match 43.0%; Score 610.6; DB 8; Length 617;
 Best Local Similarity 99.4%; Pred. No. 1.8e-145;
 Matches 613; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

341 CATCGTATTCTAGTGTGTTTGGCTTACAGCAAGCTTCTGCTCATCTTGGCGGAGAT 400
 DB 1 CATCGTATTCTAGTGTGTTTGGCTTACAGCAAGCTTCTGCTCATCTTGGCGGAGAT 60
 QY 401 CCGTGGCACTGGCGGCTGTTTGGTGTGAGAGTCTTCTCAGCTCTTCAATAGGCGC 460
 DB 61 CCGTGGCACTGGCGGCTGTTTGGTGTGAGAGTCTTCTCAGCTCTTCAATAGGCGC 120

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 622)
 Stevens, M., Wei, C., Gross, S.S., McPherson, J. and Brent, M.R.
 Exhaustive RT-PCR and sequencing of all novel TWINSKAN predictions
 in human
 Unpublished (2005)
 Contact: Brent, MR
 Laboratory of Computational Genomics
 Washington University
 Campus Box 1045, One Brookings Dr., St. Louis, MO 63130, USA
 Tel: (314) 935-6621
 Email: brent@case.wustl.edu

All products are PCR'd from first-strand cDNA made from pooled mRNA
 sources. PCR product is sequenced directly, typically from the PCR
 primers. All submitted sequences produced a high quality, spliced
 alignment to the genome or assembled into a contig that aligned to
 the genome. This alignment was not necessarily to the targeted
 locus. Legitimate, spliced sequences that resulted from mispriming
 to non-targeted cDNAs were also submitted. All data on all
 experiments can be found at <http://genes.cse.wustl.edu/rtdb/>.

FEATURES

source

location/qualifiers
 1..622

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="MGCL.5.1.2.1.All"

/tissue_type="pooled"

/clone_id="NIH_MGC_331"

/note="Tissues: adrenal gland, bone marrow, brain
 cerebellum, kidney, liver, lung (whole), placenta proctate,
 heart, kidney, liver, lung (whole), placenta proctate,
 salivary gland, skeletal muscle, testis, thymus, thyroid
 gland, trachea, uterus, spinal cord. First-stranded cDNA
 made from pooled mRNA sources. PCR product is sequencing
 directly, typically from the PCR primers."

ORIGIN

Query Match 42.3%; Score 600.8; DB 8; Length 622;

Best Local Similarity 98.1%; Pred. No. 5.8e-143;

Matches 608; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

332 TCACATGCTCATGTTATTTCTAGTGTGTTGGCTTACAGCAAGCTTCTGCTCATCTT 391
 2 TTACATGCTCATGTTATTTCTAGTGTGTTGGCTTACAGCAAGCTTCTGCTCATCTT 61
 392 GCCGAGGATCCGTCGACCTGCGCTGTTGGTGTGAGAGCTCTTCTGACTGT 451
 62 TAAGGCGATCCGTCGACCTGCGCTGTTGGTGTGAGAGCTCTTCTGACTGT 121
 452 CATAGCGCGAAGATTTGCTGTGCACTTCACTGAGATGTTCTGCGGTACAGTGA 511
 122 CATAGCGCGAAGATTTGCTGTGCACTTCACTGAGATGTTCTGCGGTACAGTGA 181
 512 CACCAACATCTCTAAGAGCTTCAAGCGGCGGCTTACAGCCCGTGTGCT 571
 182 CACCAACATCTCTAAGAGCTTCAAGCGGCGGCTTACAGCCCGTGTGCT 241
 572 CCGTGGCTGAGAGGCTTATTTACTCTACAGGAGCCCGATGATCACTGAACA 631
 242 CCGTGGCTGAGAGGCTTATTTACTCTACAGGAGCCCGATGATCACTGAACA 301
 632 GACCATTTGACTACAGAGAGCTTCACTGCGGTCTGAAGAAGATTACGCCGCGAGTA 691
 302 GACCATTTGACTACAGAGAGCTTCACTGCGGTCTGAAGAAGATTACGCCGCGAGTA 361
 692 CCGGAACGACTGAGAGAGGCTGCGGAGCCAGTGTCTACTCTGCGGAGAGATTAC 751
 362 CCGGAACGACTGAGAGAGGCTGCGGAGCCAGTGTCTACTCTGCGGAGAGATTAC 421
 752 ACCGAGTACCCCTTGGGCTGTACCAACAGTACCACTGCGGAGAGATTACGCTCTGAC 811
 422 ACCGAGTACCCCTTGGGCTGTACCAACAGTACCACTGCGGAGAGATTACGCTCTGAC 481

QY 812 CACGCTAAGGATGGGCTTCTGCTTCTGCTCTCTTCCACAGTGTCTCTCCACGCGGAC 871
 DB 482 CACGCTAAGGATGGGCTTCTGCTTCTGCTCTCTTCCACAGTGTCTCTCCACGCGGAC 541
 QY 872 CCGCTCTAAGAGGCTTGGGCTTGTACCAACGAGGCTTGGGCTTGGGCTT 931
 DB 542 CCGGCTTACGAGAGGCTTGGGCTTGTACCAACGAGGCTTGGGCTTGGGCTT 601
 QY 932 CCGCTTGGCTTCACTCTTA 951
 DB 602 CCGCTTGGCTTCACTCTTA 621

RESULT 9
 A1821606/c
 LOCUS
 DEFINITION
 A1821606 537 bp mRNA linear EST 13-DEC-1999
 nK08a11.x5 NCI CGAP C02 Homo sapiens cDNA clone IMAGE:1012892 3'
 similar to contigins TARI.c3 TARI MER22 repetitive element 1, mRNA
 sequence.

ACCESSION
 VERSION
 KEYWORDS
 SOURCE

A1821606.1 GI:5440685

EST.

Homo sapiens (human)

ORGANISM

Homo sapiens

Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
 Homiidae; Homo.

1 (bases 1 to 537)

NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index

Unpublished (1997)

Other ESTs: nK08a11.y5

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R.

Emmert-Buck, M.D., Ph.D.

cDNA Library Preparation: Stratagene, Inc., David B. Kitzman,
 Ph.D.

cDNA Library Arraying: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LIML at:

www.bio.liml.gov/bbtrp/image/image.html

This read is a RESEQUENCE of a previously sequenced human clone

Original clone citation: National Cancer Institute, Cancer Genome

Anatomy Project (CGAP), Tumor Gene Index

This read has been verified (found to hit its original self in the

correct orientation)

Insert length: 741 Std Error: 0.00

Seq primer: -40UP from Gibco

High quality sequence stop: 459.

Location/Qualifiers

1..537

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:1012892"

/tissue_type="tumor"

/lab_host="SOLR (kanamycin resistant)"

/clone_id="NCI CGAP C02"

/note="Organ: colon; Vector: Bluescript SK-; Site 1:

EcotRI; Site 2: XhoI; Cloned unidirectionally. Primer:

Oligo dT. Bulk colon villous adenoma. 5' adaptor sequence:

5' GAATTCGACGAG 3' 3' adaptor sequence: 5'

CTCAGATTGTTTTTTTTTTT 3' Average insert size: 1.1 kb."

ORIGIN

Query Match 37.3%; Score 529.6; DB 1; Length 537;
 Best Local Similarity 99.3%; Pred. No. 1.1e-144;
 Matches 532; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 886 GCTTGGCACTGCTGACCAACCGAGCCTTGGCGCTTCTTGGGGGTCTTGGCCTTGGCCTCCA 945
 DB 537 GCTTGGCACTGCTGACCAACCGAGCCTTGGCGCTTCTTGGGGGTCTTGGCCTTGGCCTCCA 478
 QY 946 TCTTGAAGCGGCGCTTGGCGCGCTGAGGCTCTCCGCGCTCACCACTCAGTACG 1005
 DB 477 TCTTGAAGCGGCGCTTGGCGCGCTGAGGCTCTCCGCGCTCACCACTCAGTACG 418
 QY 1006 GCGCGCGCTTGGGCTGACGCTGCGCAACCGGCGCTTGGCGCTTCTTGGGAGGCGCG 1065
 DB 417 GCGCGCGCTTGGGCTGACGCTGCGCAACCGGCGCTTGGCGCTTCTTGGGAGGCGCG 358
 QY 1066 TGGTGAAGCTTCCAGTATGTTGGCGCGCGCGCTTGGCGCGCTTCTTGGGAGGCGCG 1125
 DB 357 TGGTGAAGCTTCCAGTATGTTGGCGCGCGCGCTTGGCGCGCTTCTTGGGAGGCGCG 298
 QY 1126 AGGAGTGCAGCGAGGAGAGGAGGAGGAGCTCACCTTATCTTGGCGAGCCACTGCACAGC 1185
 DB 297 AGGAGTGCAGCGAGGAGAGGAGGAGGAGCTCACCTTATCTTGGCGAGCCACTGCACAGC 238
 QY 1186 AGGCGCGCTTCCAGACTTAATGATATCACCACTTAACCTTGAAGGAGGAGCCCAATCTGG 1245
 DB 237 AGGCGCGCTTCCAGACTTAATGATATCACCACTTAACCTTGAAGGAGGAGCCCAATCTGG 178
 QY 1246 ACTGCTTCCCGCGCTTGGGAGTATGCGAGCGCGGAGAGCACTGCGCGAGGCGCTGGGCG 1305
 DB 177 ACTGCTTCCCGCGCTTGGGAGTATGCGAGCGCGGAGAGCACTGCGCGAGGCGCTGGGCG 118
 QY 1306 GAGAGCTCCAGAGAGGAGGAGCTGAGCGCTGCGGAGGAGGAGCTCGAGCACTCGCAGGCA 1365
 DB 117 GAGAGCTCCAGAGAGGAGGAGCTGAGCGCTGCGGAGGAGGAGCTCGAGCACTCGCAGGCA 58
 QY 1366 CAGAGGAAGTCTCTGCGGCGATCTGTAAATAAACCTTTTCTTTGTTT 1421
 DB 57 CAGAGGAAGTCTCTGCGGCGATCTGTAAATAAACCTTTTCTTTGTTT 2

RESULT 10
 CK971974 717 bp mRNA linear EST 16-MAR-2004
 LOCUS 4087846 BARC 9BOV Bos taurus cDNA clone 9BOV4_E23 5', mRNA
 DEFINITION sequence.
 ACCESSION CK971974
 VERSION CK971974.1 GI:45489948
 KEYWORDS EST.
 SOURCE Bos taurus (cow)
 ORGANISM Bos taurus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Bovinae; Bos.
 1 (bases 1 to 717)
 Sonstegard, T.S., Van Tassel, C.P., Matukumalli, L.K., Harhay,
 G.P., Bosak, S., Rubenfield, M., and Gabbarre, L.C.
 Production of EST from cDNA libraries derived from immunologically
 activated bovine gut
 Unpublished (2004)
 Contact: Tad S. Sonstegard
 Bovine Functional Genomics Laboratory
 Animal and Natural Resources Institute
 Belg. 200 Rm2a BARC-East, Beltsville, MD 20705, USA
 Tel: 3015048416
 Fax: 3015048416

JOURNAL
 COMMENT
 FEATURES
 source
 Email: tads@anrl.barc.usda.gov
 Single pass sequencing. Bases called and trimmed with phred
 0.000925 using options -trim alt " -trim fasta. Vector identified
 by cross_match using options -mismatch 12 -minscore 18
 Plate: 4 row: B column: 23
 Seq primer: CCGAGTCAAGCGTTGTAAACG
 High quality sequence stop: 717.
 Location/Qualifiers
 1..717
 /organism="Bos taurus"

/mol_type="mRNA"
 /strain="Holstein"
 /db_xref="taxon:9913"
 /clone="9BOV4_E23"
 /sex="Male"
 /tissue_type="Pooled"
 /dev_stage="Multiple"
 /lab_host="DH10B T1 phage resistant"
 /clone_1lb="BARC 9BOV"
 /note="Organ: Abomasum; Vector: pagen-1; Site_1: EcoRV;
 Site_2: NotI; Equimolar amounts of mRNA extracted from
 fundic and pyloric abomasums of 18 and 21 week old Steers.
 Exposure to Osteragia osteragi was initiated at 15 weeks
 of age. fundic and pyloric abomasum"

ORIGIN
 Query Match 37.0%; Score 526.4; DB 7; Length 717;
 Best Local Similarity 83.7%; Pred. No. 7.5e-124;
 Matches 596; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

250 CTGGCGCGGTCGACAGTACACCTGTGGAAGGCGTACTGCTTTTATCCCGAGCGCC 309
 DB 6 CTGAGCGCGGTCGACAGTACATCTGTGAGATGTGTGCGCTTCTACCTCAGCGCC 65
 QY 310 GGCATGCGCGAGCTTCAAGCTTCACTGCTCATGTTATCTAGTGTGCTTAG 369
 DB 66 GGCATGCGCGCGCTTCAAGCTTCACTGCTCATGTTATCTAGTGTGCTTAG 125
 QY 370 CAGCAAGCTTCTGCTCATCTTTCGCGGAGTCCGTGCGCACTGCGCTGTTGTTGG 429
 DB 126 CCGCGAGCTTCTGCTCATCTTTCGCGGAGTCCGTGCGCACTGCGCTGTTGTTGG 185
 QY 430 TGAAGTCTTCTCAAGTCTGTTATAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 489
 DB 186 TGAAGTCTTCTCAAGTCTGTTATAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 245
 QY 490 AATGATCTGAGTACAGTGAACCAACCAACATCTTCAAAAGCTTTCAGCGCGCGCG 549
 DB 246 AATGATCTGAGTACAGTGAACCAACCAACATCTTCAAAAGCTTTCAGCGCGCGCG 305
 QY 550 TTACAGCGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 609
 DB 306 TCCGAGCGCGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 365
 QY 610 CCCGATGCTACAGTGAACCAACCAACATCTTCAAAAGCTTTCAGCGCGCGCG 669
 DB 366 ACCGATGCTACAGTGAACCAACCAACATCTTCAAAAGCTTTCAGCGCGCGCG 425
 QY 670 AAGGATTTACGCGCGGAGTACGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 729
 DB 426 GCCAAATCTATGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 485
 QY 730 TCTACTGCGGAGAGTGTACACCGAGTACGCTTGGCGCTGCTGCTGCTGCTGCTGCTGCT 789
 DB 486 TCTATCTGCGGAGAGTGTACCTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 545
 QY 790 TGGCGGAGCACTACGCTTGGCGCGCACTATAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 849
 DB 546 TGGCGGAGCACTACGCTTGGCGCGCACTATAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 605
 QY 850 ACGTGTGCTCTCCACGCGCGCGCTTACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 909
 DB 606 ACATGTGCTCTCTCCATGCGCGGCTTCCGACCTACGAGGAGGAGGAGGAGGAGGAGGAG 665
 QY 910 CTTTGGGCTCTTTCGGGCGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 961
 DB 666 CTTTGGGCTCTTTCGGGCGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 717

RESULT 11
 CK979918 703 bp mRNA linear EST 16-MAR-2004
 LOCUS 4111631 BARC 9BOV Bos taurus cDNA clone 9BOV40_D22 5', mRNA
 DEFINITION

sequence.
 ACCESSION CK979918 GI:45497898
 VERSION CK979918.1
 KEYWORDS EST.
 SOURCE Bos taurus (cow)
 ORGANISM Bos taurus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.
 1 (bases 1 to 703)
 Sonnegard, T.S., Van Tassel, C.P., Matukumalli, L.K., Hartay, G.P., Bosak, S., Rubenfield, M. and Gasbarre, L.C.
 Production of EST from cDNA libraries derived from immunologically activated bovine gut
 Unpublished (2004)
 JOURNAL Contact: Tad S. Sonnegard
 Bovine Functional Genomics Laboratory
 Animal and Natural Resources Institute
 Bldg. 200 Rm2A BARC-East, Beltsville, MD 20705, USA
 Tel: 3015048416
 Fax: 3015048414
 Email: tads@anri.barc.usda.gov
 Single pass sequencing. Bases called and trimmed with phred 0.000925 using options -trim_alt "-trim_fasta. Vector identified by cross_match using options -mismatch 12 -mismatch 18
 Plate: 40 row: D column: 22
 Seq primer: CCCAGTCACGACGCTTGAACG
 High quality sequence stop: 703.
 Location/Qualifiers
 1..703
 /organism="Bos taurus"
 /mol_type="mRNA"
 /strain="Holstein"
 /db_xref="taxon:9913"
 /clone="9BOV40_D22"
 /sex="Male"
 /tissue_type="Pooled"
 /dev_stage="Multiple"
 /lab_host="DH10B T1 phage resistant"
 /clone_lib="BARC 9BOV"
 /note="Organ: Abomasum; Vector: Pagen-1; Site 1: EcorV; Site 2: NotI; Equimolar amounts of mRNA extracted from fundic and pyloric abomasum of 18 and 21 week old steers. Exposure to Osteragia osteragi was initiated at 15 weeks of age. fundic and pyloric abomasum"
 ORIGIN
 Query Match 36.7%; Score 522.2; DB 7; Length 703;
 Best Local Similarity 83.9%; Pred. No. 9e-123;
 Matches 590; Conservative 0; Mismatches 113; Indels 0; Gaps 0;
 QY 288 CTGCGCTTTTACCCCGAGCCCGGATGCGAGGCTTCAGCGTTTCACCTGCTCATCGTT 347
 DB 1 CTGCGCTTTTACCCCGAGCCCGGATGCGAGGCTTCAGCGTTTCACCTGCTCATCGTT 60
 QY 348 ATTCTAGTGTGTTGGCTCTAGAGAGAGAGCTTCCTGCTCATCTGCGGGATCCGTGGC 407
 DB 61 ATTCTAGTGTGTTGGCTCTGAGCGGAGCTTCCTGCTCATCTGCGGGATCCGTGGC 120
 QY 408 CACTCGCGCTGTTTGTGTGTGAGAGTCTTCTGCTCATCTGCTCATAGCGCAGAAATT 467
 DB 121 CACTCGCGAGTGTGTTGTGTGTGAGAGTCTTCTGCTCATCTGCTCATAGCGCAGAAATT 180
 QY 468 GTGCGTGTGCACTTCACTGCAAGATGTTCTGTGGTACAGTGAACAACAACATCTTAC 527
 DB 181 GTGCGCGGCACTTCACTGCAAGATGTTCTGTGGTACAGTGAACAACAACATCTTAC 240
 QY 528 AAAGCCTTACGAGCGAGCGGTTACAGCCCGGTGCTGCTGCTGCTGCTGAGAGGC 587
 DB 241 AAAGCCTTACGAGCGGTTACAGCCCGGTGCTGCTGCTGCTGCTGAGAGGC 300
 QY 588 ATTATATATACCTACAGAGGACCCCAAGTGCATCAGTGAACGAGACATTTGACTTAAAC 647

DB 301 GTTAATATACACTCTACAGAGGAAACCAAGTGCAGAGCTGAAGACATCGACTACAT 360
 QY 648 GAGCAGTTACCTGGGCTCTGAAAAGAAATTACGCCCGGAGTACCGCAACGACTGGAG 707
 DB 361 GAGCAGTTACCTGGGCTCTGAAAAGAAATTACGCCCGGAGTACCGCAACGACTGGAG 420
 QY 708 AAGGAGCTGCGGACCCAGTGTCTTACCTGGGAGAAATTACACCGAGTACCGCTTGC 767
 DB 421 AAGGAGCTGCGGACCCAGTGTCTTACCTGGGAGAAATTACCTGGAGAGCCCTGT 480
 QY 768 GAGCTGTACACAGTACCACTTGGGAGGACACTAGGCTCGGCCACGCTATGAGTGGC 827
 DB 481 GAGCTGTACACAGTACCACTTGGGAGGACACTAGGCTCGGCCACGCTATGAGTGGC 540
 QY 828 TTCTGCTTGTGCTCTCTTCCAAAGTGTGCTCTGCAAGCGGAGCGGCGCTCTGAGGAGC 887
 DB 541 TTCTGCTTGTGCTCTCTTCCAAAGTGTGCTCTGCAAGCGGAGCGGCGCTCTGAGGAGC 600
 QY 888 CTGACACTGTCTGACCAACCGGAGCTTTCGCGCTTTCGAGGCTTTCGCTTCATC 947
 DB 601 CTGACACTGTCTGACCAACCGGAGCTTTCGCGCTTTCGAGGCTTTCGCTTCATC 660
 QY 948 TCTAGGTCGCGCTGTCGCGCTTCGCGCTTCGCGCTTCGCGCTTCGCGCTTCGCGCT 990
 DB 661 TCTAGGTCGCGCTGTCGCGCTTCGCGCTTCGCGCTTCGCGCTTCGCGCTTCGCGCT 703

RESULT 12
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 LOCUS WK35604.x1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:2417406 3',
 DEFINITION mRNA sequence.
 ACCESSION A1826629
 VERSION A1826629.1 GI:5447300
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 515)
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 Unpublished (1997)
 JOURNAL Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
 CDNA Library Preparation: M. Bento Soares, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:
www-bio.linnl.gov/bdip/image/image.html
 Insert Length: 910 Std Error: 0.00
 Seq primer: -40UP from Gibco
 High quality sequence stop: 467.
 Location/Qualifiers
 1..515
 /organism="Homo sapiens"
 /mol_type="mRNA"
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 /clone="IMAGE:2417406"
 /sex="male"
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 /lab_host="DH10B"
 /clone_lib="NCI CGAP P122"
 /note="Organ: prostate; Vector: pTZ19-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from normal prostate bulk tissue, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not

FEATURES

source

SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
Eukaryote:	Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia:	Euthera; Euarchontoglires; Primates; Catarrhini;
Homidae:	Homo.
1 (bases 1 to 500)	
Takeda,J., Jin,L. and Horikawa,Y.	
Expression profile of mRNAs from human pancreatic islet tumors	
JOURNAL	Unpublished (2005)
COMMENT	Contact: Yukio Horikawa Laboratory of Molecular Genetics Institute for Molecular and Cellular Regulation, Gunma University Showa-machi 3-39-15, Maebashi, Gunma, 371-8512, Japan Tel.: 81-27-220-8832 Fax: 81-27-220-8889 Email: yhorikaw@showa-gunma-u.ac.jp.
FEATURES	Location/Qualifiers
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/organism="Homo sapiens"	
/mol_type="mRNA"	
/db_xref="taxon:9606"	
/clone="hbt10023"	
/tissue_type="pancreatic islet"	
/clone_lib="Homo sapiens pancreatic islet"	
ORIGIN	
Query Match	34.9%; Score 496; DB 3; Length 500;
Best Local Similarity	100.0%; Pred. No. 4,5e-116;
Matches	496; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	926 GGTCTTGCGCCCTTGGACCTTCATCTTAAGGAGGCCCTCAGCCGCTGAGGCTCTGC 985
Db	1 GGCTCTTGGCCCTTGGCTCATCTTAAGGAGGCCCTCAGCCGCTGAGGCTCTGC 60
OY	986 CGCGCTCACTCACTAGTAGGCGCGCCCTTCTGAGTCACTGTCGAACCGCGTCTGTG 1045
Db	61 CGCGCTCACTCACTAGTAGGCGCGCCCTTCTGAGTCACTGTCGAACCGCGTCTGTG 120
OY	1046 CCTCTTCTCGGAGGGGCGGTGTGAGTCTTCAAGTATTGGCCCAAGCTCTTTGGCAC 1105
Db	121 CCTCTTCTCGGAGGGGCGGTGTGAGTCTTCAAGTATTGGCCCAAGCTCTTTGGCAC 180
OY	1106 CTTCTTGAGCAAAAGCGCCAGAAGACTGAGCAGGAGAGAGGGGGCTCACTTTAATCT 1165
Db	181 CTTCTTGAGCAAAAGCGCCAGAAGACTGAGCAGGAGAGAGGGGGCTCACTTTAATCT 240
OY	1166 CGGCGAACCTGACGAAGAGCGGCTCTCTCCAGACTTAAATGTATCAACAATACT 1225
Db	241 CGGCGAACCTGACGAAGAGCGGCTCTCTCCAGACTTAAATGTATCAACAATACT 300
OY	1226 GTGAGGGGGACCCATCTGGACTCTTCCCGGCTTGGGACATGAGAGCGGGAGAGAG 1285
Db	301 GTGAGGGGGACCCATCTGGACTCTTCCCGGCTTGGGACATGAGAGCGGGAGAGAG 360
OY	1286 TGCCCGCAGGCGCTTGAGCAGGAGAGCTTCAGAAAGGCACTGAGCGCTGTGGCGGAG 1345
Db	361 TGCCCGCAGGCGCTTGAGCAGGAGAGCTTCAGAAAGGCACTGAGCGCTGTGGCGGAG 420
OY	1346 GCCTTGGAATCTCCGAGGCAACAGGAAAAGTCTCTGGGGGAGATCTGTAAATTAACCTTT 1405
Db	421 GCCTTGGAATCTCCGAGGCAACAGGAAAAGTCTCTGGGGGAGATCTGTAAATTAACCTTT 480
OY	1406 TTTTCTTTGTTTTT 1421
Db	481 TTTTCTTTGTTTTT 496
RESULT 15	
A1791844	505 bp mRNA linear EST 13-DEC-1999
LOCUS	
DEFINITION	nk08a11.y5 NCI_QCAP C02 Homo sapiens cDNA clone IMAGE:1012892 5'
ACCESSION	A1791844
	similar to contains Alu repetitive element;; mRNA sequence.

VERSION	A1791844.1	GI:5339486
KEYWORDS	EST.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	N1 (bases 1 to 505) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap .	
AUTHORS	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), TITLE	
JOURNAL	Tumor Gene Index Unpublished (1997)	
COMMENT	Other ESTs: nk08a11.s1 Contact: Robert Strausberg, Ph.D. Email: cgaps-remail.nih.gov Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R. Emmett-Buck, M.D., Ph.D. CDNA Library Preparation: Stratagene, Inc., David B. Kitzman, Ph.D. CDNA Library Arraying: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: www-bio.livl.gov/bdrip/image/image.html	

This read is a RESSEQUENCE of a previously sequenced human clone
Original clone citation: see original entry for original citation
Information
This 5' resequenced clone has no previous 5' data to verify this
new read against
Putative full length read
The vector to vector length is 671
Insert Length: 741 Std Error: 0.00
Seq primer: -40RP from Glbco
High quality sequence stop: 418.
Location/Qualifiers
1..505
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cd_xref="IMAGE:1012892"
/tissue_type="tumor"
/lab_host="SOLR (kanamycin resistant)"
/clone_id="NCI CGAP C02"
/note="Organ: colon; Vector: Bluescript SK-; Site_1:
EcotRI; Site_2: XhoI; Cloned unidirectionally. Primer:
Oligo dt. Bulk colon villous adenoma. 5' adaptor sequence:
5' GAATTCGGACAG 3' 3' adaptor sequence: 5'
CTCAGTTTTTTTTTTTTTTT 3' Average insert size: 1.1 kb."

ORIGIN	
Query Match	34.4%; Score 489.2; DB 1; Length 505;
Best Local Similarity	99.2%; Pred. No. 2.5e-114;
Matches 502; Conservative	0; Mismatches 3; Indels 1; Gaps 1;

```

QY      744  AAGTTCAACCGAATAAGCCCTTGAGGCGCTGTACAACACGAATACCACTTGAGCGGACACTAC 803
DB      1   AAGTTCAACCGAATAAGCCCTTGAGGCGCTGTACAACACGAATACCACTTGAGCGGACACTAC 60
QY      804  GCTTCGACAGCATATGGATGGAGCGTTCTGTCTTGCTCTCTCCAAGTGTGCTTCC 863
DB      61  GCCTTCGACAGCATATGGATGGAGCGTTCTGTCTTGCTCTCTCCAAGTGTGCTTCC 120
QY      864  ACGCCGAGCCCGCTCTACGAGGCGCTTGACATGCTGACACCGGAGCTTGGCGCTTCC 923
DB      121  ACGCGGAGCCCGCTCTACGAGGCGCTTGACATGCTGACACCGGAGCTTGGCGCTTCC 180
QY      924  GGGGCTTTCGCTTGGCTCCATCTTAAGCGATGCCTGCGCTCGCGCTAGAGTCC 983
DB      181  GGGGCTTTCGCTTGGCTCCATCTTAAGCGATGCCTGCGCTCGCGCTAGAGTCC 240
QY      984  TCCGGCTCACCATCATGATGAGCGCGCGCTTTCGATCAGGCTTGACACCGGCGTCTCTG 1043

```

Db	241	TCGGCGCTACACACTCAGTACGGGCGCGCTTCTGAGTCAAGCTGGCAACCGGCGTCTG	300
Qy	1044	TGCTCTTCTCTCGGAGGGGCGGTGTGAGTCTCCAGTATGTTGGCCCAAGCGCTTTGCG	1103
Db	301	TGCTCTTCTCTCGGAGGGGCGGTGTGAGTCTCCAGTATGTTGGCCCAAGCGCTTTGCG	360
Qy	1104	ACCTTCTGAGCAAGCGGCAAGGACTGAGCGAGGAGAGGGGGCTCAGCTTTATC	1163
Db	361	ACCTTCTGAGCAAGCGGCAAGGACTGAGCGAGGAGAGGGGGCTCAGCTTTATC	420
Qy	1164	CTGGGAGACCACTGACAGGAGGCGCTCTCCAGACTTAAATGTATCAGCACTAAC	1223
Db	421	CTGGGAGACCACTGACAGGAGGCGCTCTCCAGACTT-AAATGTATCAGCACTAAC	479
Qy	1224	CTGTAGGGGGACCAATCTGACTC	1249
Db	480	CTGTAGGGGGACCAATCTGACTC	505

Search completed: January 22, 2006, 02:34:11
 Job time : 6255 secs

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Query Match	25.0%	Score 354.8	DB 3	Length 1029
Best Local Similarity	64.5%	Pred. No. 7.7e+78		
Matches 546	Conservative 0	Mismatches 297	Indels 3	Gaps 1
QY	287	ACTGCGCTTTTACCCCGAGCCCGGCATGCGCAGGCTTCAGCGTTCCACTGCTCATGCT	346	
Db	21	ATTCCCGCTTCATGCTGGCCCCCAGGCCAACCTTCCCATGAGACACACTTTTGGCCAGCAT	80	
QY	347	TATTTACATGTTTTTGGCTGTAGCAGCAGCTTCTGCTCATCTTGGCCGGGATCCGTGG	406	
Db	81	CATCATGATCTTTCTGCACTGCACATGGCCACAGTTCATCCGTCATCCCGCTGGCGATTCGGGG	140	
QY	407	CCACTCGCGCGCTGTTTGGTGTGTGAGAGTTCTTCAAGTCGTGCATATAGGCGCAGAAAT	466	
Db	141	AAAGACGAGGCGTGTTCGTGGCTGCTTCGGSTGGTGAACAGCTTATTCATCGGGGCTGCAT	200	
QY	467	TGTGCTGTGCACTTCAGTGTGAGAAATGTTGGTGGTACAGTGAACACCAACATCTCTA	526	
Db	201	CTGGCTGTGAATTTCACTTCTGAATGCTGTGTGGCCAGGTCAAGACACACATCATTA	260	
QY	527	CAAAAGCTTTCAGCGCAGCGCGGTATACAGCCCGTGTGGTCTGCTGTGGGCTTGAAGGG	586	
Db	261	CAAGGCTTTCAGTTCTGAATGGATACAGGCGGTGATATTGGGGCTGACAGTTCGGGCTGGGTGG	320	

QY 587 CATTAATATTACACTGACAGGAGACCCAGAGTCACTGAGTGAACGACATGATGATCA 646
Db 321 AGTCACATCACTGACAGGAGACCCAGAGTCACTGAGTGAACGACATGATGATCA 380
QY 647 CGAGCAATGACCTGAGGCTGTAAGAAATTAAGCCGAGTGAAGCGACGACATGGA 706
Db 381 CGAGCAATGACCTGAGGCTGTAAGAAATTAAGCCGAGTGAAGCGACGACATGGA 440
QY 707 GAAGGGGCTGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 766
Db 441 GAAGGGGCTGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 500
QY 767 CGAGCTGACACAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 826
Db 501 TGAGCTATACCGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 560
QY 827 GTTCTGCTGCTGCTCTCTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 886
Db 561 ATTCTGCTGCTGCTGCTGCTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 620
QY 887 CTTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 943
Db 621 CATACATGATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 680
QY 944 CATCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1003
Db 681 CATACATGATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 740
QY 1004 CGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1063
Db 741 TGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 800
QY 1064 CGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1123
Db 801 TATGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 860
QY 1124 CAAGA 1129
Db 861 GAGTGA 866

RESULT 2
US-09-578-063-53
; Sequence 53, Application US/09578063
; Patent No. 6764677
; GENERAL INFORMATION:
; APPLICANT: McCarthy, Sean A
; APPLICANT: Barnes, Thomas M
; APPLICANT: Fraser, Christopher C
; APPLICANT: Sharp, John D
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING DIAGNOSTIC,
; TITLE OF INVENTION: PREVENTIVE, THERAPEUTIC, AND OTHER USES
; FILE REFERENCE: 210147.0023/601
; CURRENT APPLICATION NUMBER: US/09/578, 063
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/333,159
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 53
; LENGTH: 2133
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-578-063-53

Query Match 25.0%; Score 354.8; DB 3; Length 2133;
Best Local Similarity 63.8%; Pred. No. 9.3e-78;
Matches 555; Conservative 0; Mismatches 312; Indels 3; Gaps 1;

QY 263 CAGCATGACCTGAGAAAGCGCTAGCTGCTTTTACCCCGAGCCCGGAGATGCGCAGG 322
Db 66 CAGATGCTACTTGGAGACACATTCCTCTTATGCTGGCCCAAGCCAACTTCCC 125

QY 323 CTTGAGGCTTGCAGTGTGCTGATGTTATTTAGTGTGTTTGGCTTACGAGCAAGCTTCT 382
Db 126 GATGAGACCACTTTTGGCAGATCATATGATCTTTGATGCTGACCTGGCCAGCTTCA 185
QY 383 GCTCATCTTGGCGGAGTCCGTGACCATCGCGCTGGTTTGGTTGGTGAAGTCTTCT 442
Db 186 CGTCAATCTGCGTGGCATTTGGGGAAGAGAGGCTGTTCTGGCTGCTTGGGTTGGTGA 245
QY 443 CAGTCTGTTCAATAGCGGAAATTTGGCTGTGACTTCACTGAGCAATTTGGTTGGT 502
Db 246 CAGCTTATTCATCGGGGCTGCAATCTGAGCTGTAATTTCAATTTGAGTGTGCTGTGG 305
QY 503 TACAGTGAACCAACATCACTCAAAAGCTTACAGCGAGCGCGCTTACAGCCGCTGT 562
Db 306 CAGAGTCAACCAACATCACTCAAAAGCTTACAGCGAGCTTCAAGTGTATAGAGCTGAT 365
QY 563 CGGTCTGCTGTTGGGCTGGAAGGCAATTAATTAATCACTCAGAGGAGCCCAAGTCA 622
Db 366 TGAGGCTGAGAGTGGGCTGGTGGAGTCAATCACTCAGAGGAGCCCGTGGAGCA 425
QY 623 GCTGAACGAGACATTTGATTAAGAGAGTTCACCTTGGCTTGAAGAAATTAAGC 682
Db 426 GCTGAATGAGACATTAATTAAGAGAGTTCACCTTGGCTTGAAGAAATTAAGC 485
QY 683 CGAGGATGAGGAGACGCACTGGAAGAGGAGGCTGCGAGCCAGTGTCTTACCTGGAG 742
Db 486 TGAAGATGAGGAGAGGCTGGAAGAGGAGGCTGCGAGCCAGTGTCTTACCTGGAG 545
QY 743 GAAGTTCACAGGAGTGAAGCTTGGGCTGTAACCAAGTGAACATGAGCGAGACATTA 802
Db 546 GAAGTTCACAGGAGTGAAGCTTGGGCTGTAACCAAGTGAACATGAGCGAGACATTA 605
QY 803 CGGCTGAGCAGATATGAGTGGGCTTGGCTTGGCTGCTGCTGCTGCTGCTGCTGCTG 862
Db 606 CAGCTGAGCAGATATGAGTGGGCTTGGCTTGGCTGCTGCTGCTGCTGCTGCTGCTG 665
QY 863 CAGCGGAGCGGCTGTAAGAGGCTGAGCACTGCTGACCAAGGAGCTTGGCGCTTT 922
Db 666 CAGCTGAGCAGATATGAGTGGGCTTGGCTTGGCTGCTGCTGCTGCTGCTGCTGCTG 725
QY 923 CG---GGTCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT 979
Db 726 GGTCTGCTGCTTCTTCATGAGCCACATCACTCACTCACTGCTGCTGCTGCTGCTG 785
QY 980 CTCTCCGCGCTCACCATGAGAGGCGGCTTGGAGTCAAGCGTGGCAACCGGCT 1039
Db 786 CGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 845
QY 1040 CCTGTGCTTCTTCTGAGAGGCGGCTGAGTCTCCAGTATGTTCCGCCCAAGCGCTT 1099
Db 846 GCTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 905
QY 1100 TCGACCTCTTGGAGCAAGCGCCCAAGGA 1129
Db 906 GAAGCTTCTTCAACAGAGTGTGATGA 935

RESULT 3
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHREIFINGER, F.
; APPLICANT: PARKER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOXP2 VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA

COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMU
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)836-9300
TELEFAX: (703)683-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE: P129PC-F18
US-08-232-463-14

Query Match 4.3%; Score 61; DB 2; Length 7218;
Best Local Similarity 1.9%; Pred. No. 3.5e-05;
Matches 7; Conservative 221; Mismatches 131; Indels 0; Gaps 0;

QY 761 CCTTGGGCGCTGTACCAACGATACCACTGGCGGACACTAGCCCTGGCCACTATG 820
Db 1084 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1143
QY 821 GGTGGCGCTGTCTGGGCTCCCTCCACAGTGTCTGTCCAGCGGCGCGCTCTA 880
Db 1144 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1203
QY 881 CGAGGCGCTGTGACTGTGACCAACGAGCCTTGGCGCTTGGCGCTTGGCGC 940
Db 1204 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1263
QY 941 CTCATCTAGAGCTGTGCGCTGTGCGGCTGTGAGCTCTCCGCGTCACTCA 1000
Db 1264 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1323
QY 1001 GTAGGCGCGCGCTTGTGGGTCAAGCTGTGCAACGCGGTCTGTGCGGAG 1060
Db 1324 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1383
QY 1061 GGCGGTGTGATCTCCAGATGTTCGGCCAGCGCTTGTGCAACCTTGTGACCAA 1119
Db 1384 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1442

RESULT 4
US-09-252-991A-1304/c
Sequence 1304, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 1304
LENGTH: 1098
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1304

Query Match 3.5%; Score 50.2; DB 3; Length 1098;
Best Local Similarity 50.6%; Pred. No. 0.01;
Matches 121; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY 838 GGCTCTCTTCCAAAGTGTCTCTTCCACGCGCGCCGCTTACGAGGCTGTGCACTGC 897
Db 602 GACTCTGTCTCAATGTGCGCTGTGCGCGGTGTGCTGTGGGCGCGCTGATGTGC 543
QY 898 TGACCAACCGAGGCTTGTGCGCTTGTGGGGTCTTGTGCTGTGCTCATCTAGCGTGC 957
Db 542 TGGCGGCGGCGCTGTGCGCGCGAAGCGCGGACCTGTGCGCTGTGCGCTGACACCGCGCGG 483
QY 958 CGCTTGTGCGCGCTGTGCGCTGTGCGCTGTGCGCTGTGCGCTGTGCGCTGTGCGCTTCT 1017
Db 482 TGTCTGCGCGCGCTGTGTGCGCGAAGCGCTGTGAGAACCGCGCGCGCGCGCGCT 423
QY 1018 GGTGTACGCTGTGCAACCGCGCTGTGTGCTTCTTCTGTGAGGCGCGCTGTGATGTC 1076
Db 422 TGGCGCTGTGCGCGCGAAGCGGAGCGCTGTGCGGCAATGTGCAACCTGTGCGCGCGGCTC 364

RESULT 5
US-09-252-991A-1255
Sequence 1255, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 1255
LENGTH: 1257
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1255

Query Match 3.5%; Score 50.2; DB 3; Length 1257;
Best Local Similarity 50.6%; Pred. No. 0.01;
Matches 121; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY 838 GGCTCTCTTCCAAAGTGTCTCTTCCACGCGCGCCGCTTACGAGGCTGTGCACTGC 897
Db 333 GACTCTGTCTCAATGTGCGCTGTGCGCGGTGTGCTGTGGGCGCGCTGATGTGC 392
QY 898 TGACCAACCGAGGCTTGTGCGCTTGTGGGGTCTTGTGCTGTGCTCATCTAGCGTGC 957
Db 393 TGGCGGCGGCGCTGTGCGCGCGAAGCGCGGACCTGTGCGCTGTGCGCTGACACCGCGCGG 452
QY 958 CGCTTGTGCGCGCTGTGCGCTGTGCGCTGTGCGCTGTGCGCTGTGCGCTGTGCGCTTCT 1017
Db 453 TGTCTGCGCGCGCTGTGTGCGCGAAGCGCTGTGAGAACCGCGCGCGCGCGCGAGGCT 512
QY 1018 GGTGTACGCTGTGCAACCGCGCTGTGTGCTTCTTCTGTGAGGCGCGCTGTGATGTC 1076

Db 513 TGGCGCTGAGCGGAGGAGCGCTTGGCGGATTCGCTATAGGACCTTGGCGGGGATC 571

RESULT 6

US-09-252-991A-1163
Sequence 1163, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

PRIOR FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 1163

LENGTH: 1746

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-1163

Query Match 3.5%; Score 50.2; DB 3; Length 1746;
Best Local Similarity 50.6%; Pred. No. 0.011;
Matches 121; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

Qy 838 GGCCTCTCTCCAGTGTCTCTCTCCAGCGCGGCGCTCTACGAGGCGCTGGCACTGC 897

Db 1283 GACTCTCTCTCAATGCGCTCTCGCGGATTCGCTATAGGACCTTGGCGGGGATC 1342

Qy 898 TGAACACCGGAGCGCTTGGCGGCTCTTGGCGGCTCTTGGCGGCTCTTGGCGGCTCT 957

Db 1343 TGGCGGCGGCGCTCTGGCGGCGGAGCGCGGAGCGCTCTGGCGGCGGCGGCGG 1402

Qy 958 CGCTCTGCGCGCTCTGGCGGCTCTGGCGGCTCTGGCGGCTCTGGCGGCTCTGG 1017

Db 1403 TGTCTGCGCGGCTCTGGCGGCTCTGGCGGCTCTGGCGGCTCTGGCGGCTCTGG 1462

Qy 1018 GGGTCACGCTGCGAACCGCGGCTCTTGGCGGCTCTTGGCGGCTCTTGGCGGCTCT 1076

Db 1463 TGGCGCTGCGCGGCGGAGCGGCTCTGGCGGCTCTGGCGGCTCTGGCGGCTCTGG 1521

RESULT 7

US-09-252-991A-1350/c
Sequence 1350, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

PRIOR FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 1350

LENGTH: 396

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-1350

Query Match 3.4%; Score 48.2; DB 3; Length 396;
Best Local Similarity 52.2%; Pred. No. 0.024;
Matches 107; Conservative 0; Mismatches 98; Indels 0; Gaps 0;

Qy 838 GGCCTCTCTCCAGTGTCTCTCTCCAGCGCGGCGCTCTACGAGGCGCTGGCACTGC 897

Db 217 GACTCTCTCTCAATGCGCTCTGGCGGATTCGCTATAGGACCTTGGCGGGGATC 158

Qy 898 TGAACACCGGAGCGCTTGGCGGCTCTTGGCGGCTCTTGGCGGCTCTTGGCGGCTCT 957

Db 157 TGGCGGCGGCGCTCTGGCGGCGGAGCGCGGAGCGCTCTGGCGGCGGCGGCGG 98

Qy 958 GGCCTCTGCGCGCTCTGGCGGCTCTGGCGGCTCTGGCGGCTCTGGCGGCTCTGG 1017

Db 97 TGTCTGCGCGGCTCTTGGCGGCTCTGGCGGCTCTGGCGGCTCTGGCGGCTCTGG 38

Qy 1018 GGGTCACGCTGCGAACCGGCGCTCTTGGCGGCTCTTGGCGGCTCTTGGCGGCTCT 1042

Db 37 TGGCGCTGAGCGGAGGAGCGCTTGGCGGATTCGCTATAGGACCTTGGCGGGGATC 13

RESULT 8

US-09-614-912-35
Sequence 35, Application US/09614912

Patent No. 6677502

GENERAL INFORMATION:

APPLICANT: Allen, Steve

APPLICANT: Rafalski, Antoni

APPLICANT: Orozco, Buddy

APPLICANT: Miao, Gou-Hau

APPLICANT: Famodu, Omolayo O.

APPLICANT: Lee, Jian Ming

APPLICANT: Sakai, Hajime

APPLICANT: Weng, Zude

APPLICANT: Calml, Perry G

APPLICANT: Anderson, Shawn

TITLE OF INVENTION: Plant Metabolism Genes

FILE REFERENCE: B1378 US NA

CURRENT APPLICATION NUMBER: US/09/614,912

PRIOR FILING DATE: 2000-07-12

PRIOR APPLICATION NUMBER: 60/143,401

PRIOR FILING DATE: 1999-07-12

PRIOR APPLICATION NUMBER: 60/143,412

PRIOR FILING DATE: 1999-07-12

PRIOR APPLICATION NUMBER: 60/146,650

PRIOR FILING DATE: 1999-07-30

PRIOR APPLICATION NUMBER: 60/170,906

PRIOR FILING DATE: 1999-12-15

PRIOR APPLICATION NUMBER: 60/172,959

PRIOR FILING DATE: 1999-12-21

PRIOR APPLICATION NUMBER: 60/172,946

PRIOR FILING DATE: 1999-12-21

NUMBER OF SEQ ID NOS: 204

SOFTWARE: Microsoft Office 97

SEQ ID NO 35

LENGTH: 1436

TYPE: DNA

ORGANISM: Zea mays

US-09-614-912-35

Query Match 3.4%; Score 48; DB 3; Length 1436;
Best Local Similarity 46.8%; Pred. No. 0.038;
Matches 187; Conservative 0; Mismatches 210; Indels 3; Gaps 1;

Qy 549 GTTACAGCCCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 608

Db 43 GTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 102

Qy 609 ACCCAAGTCATGCTGTAAGCAAGACATTTGACTACAGAGAGATTACCTGGCTCTG 668

Db 103 TTGAGCGTGTGCGGCTGAGCGGCTCTCGAGCATCCCGAGAGATTCTGGCGGCG 162

Qy 669 AAGAGATTATCGCCGCGGAGTACGGAAGCACTGGAAGAGGCTGCGGAGCCAGTG 728

Db 163 GAGGAGGCGCCAGCCCGGAGCTCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 222

Qy 729 CTCTACTGCGGAGAGAGATTACACCG--AGTAGCCCTTGAGGCTGTATCCACAGTAC 785

Db 223 GGGAGCGCCGAGGTGTCGCGAGATCCGCGCGCTGCGACCTGACGCTTCTTC 282
Qy 786 CACCTGGCGGACACCTACGCTTGGCCAGCTATGGTGGCTTCTGCTTTCGCTCC 845
Db 283 CAGGTGGTGGGACGACATGACGCGCGCTGACGCGGACCGACCGCTGACATGAC 342
Qy 846 TCCAAAGTGTGCTTCCACGCGCGCGCTTACGAGGAGCTTGGCACTGACACACC 905
Db 343 GCTTCTTACGCTGCGCTCCGCTCCGACGACGAGCGCGGACCGCGGAGGACAGC 402
Qy 906 GAGACCTTGGCGCTTCTTGGGAGTCTTCCCTTGGCTTCA 945
Db 403 TGGGCTTACGCGACGACGCTTACGCGCGCTTGGCTTCA 442

RESULT 9
US-09-252-991A-11029/c
; Sequence 11029, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 11029
; LENGTH: 420
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-11029

Query Match 3.3%; Score 47.6; DB 3; Length 420;
Best Local Similarity 48.2%; Pred. No. 0.035;
Matches 134; Conservative 0; Mismatches 144; Indels 0; Gaps 0;

Qy 793 CGGAGACCTACGCTTGGCGACGCTATGGTGGCTTCTGCTTCTTCCCAACG 852
Db 382 CGGTGGAACGCTTCTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 323
Qy 853 TGTGCTCTTCCAGCGCGCGCTCTTACGAGGCTTGGCACTGCTGACACCGAGCT 912
Db 322 CGGTGACGAGAGCGCGGCTGTTCAAGAGCTGACCGGCTTCTGCGCATGCGCTT 263
Qy 913 TCGGCTCTTGGGAGTCTTGGCTTGGCTTCCATCTTACGCTGCGCTTCCCTCC 972
Db 262 TCTCCCTGACGCTGCTGGGACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 203
Qy 973 GCTTACGCTTCTGCGCTTACACACTGACGAGCGCGCTTGGGTACGCTGACCA 1032
Db 202 CTTTGGCTTCCAGCGCGGAGCGGAGTGTTCATCTTGGCTTCTGCTGCTGCTG 143
Qy 1033 CGGAGCTCTGCTTCTTCTTCCGAGAGGCGCTGCTG 1070
Db 142 GCGGCTGCTGACCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 105

RESULT 10

US-09-252-991A-11226
; Sequence 11226, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 11226
; LENGTH: 1683
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-11226

Query Match 3.3%; Score 47.6; DB 3; Length 1683;
Best Local Similarity 48.2%; Pred. No. 0.049;
Matches 134; Conservative 0; Mismatches 144; Indels 0; Gaps 0;

Qy 793 CGGAGACCTACGCTTGGCGACGCTATGGTGGCTTCTGCTTCTTCCCAACG 852
Db 864 CGGTGGAACGCTTCTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 923
Qy 853 TGTGCTCTTCCAGCGCGCGCTCTTACGAGGCTTGGCACTGCTGACACCGAGCT 912
Db 924 CGGTGACGAGAGCGCGGCTGTTCAAGAGCTGACCGGCTTCTGCGCATGCGCTT 983
Qy 913 TCGGCTCTTGGGAGTCTTGGCTTGGCTTCCATCTTACGCTGCGCTTCCCTCC 972
Db 984 TCTCCCTGACGCTGCTGGGACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 1043
Qy 973 GCTTACGCTTCTGCGCTTACACACTGACGAGCGCGCTTGGGTACGCTGACCA 1032
Db 1044 CTTTGGCTTCCAGCGCGGAGCGGAGTGTTCATCTTGGCTTCTGCTGCTGCTG 1103
Qy 1033 CGGAGCTCTGCTTCTTCTTCCGAGAGGCGCTGCTG 1070
Db 1104 GCGGCTGCTGACCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1141

RESULT 11

US-09-252-991A-11111
; Sequence 11111, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 11111
; LENGTH: 1974
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-11111

Query Match 3.3%; Score 47.6; DB 3; Length 1974;
Best Local Similarity 48.2%; Pred. No. 0.051;
Matches 134; Conservative 0; Mismatches 144; Indels 0; Gaps 0;

Qy 793 CGGAGACCTACGCTTGGCGACGCTATGGTGGCTTCTGCTTCTTCCCAACG 852
Db 731 CGGTGGAACGCTTCTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 790
Qy 853 TGTGCTCTTCCAGCGCGCGCTCTTACGAGGCTTGGCACTGCTGACACCGAGCT 912
Db 791 CGGTGACGAGAGCGCGGCTGTTCAAGAGCTGACCGGCTTCTGCGCATGCGCTT 850
Qy 913 TCGGCTCTTGGGAGTCTTGGCTTGGCTTCCATCTTACGCTGCGCTTCCCTCC 972
Db 851 TCTCCCTGACGCTGCTGGGACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 910

QY	973	GCTAGAGTCTCTCGCGCTGACACACTAGTAAAGGAGCGGCTTTCTGGGTACAGCTGGCAA	1032
Db	911	CTTTCGCTCCGACCCGGAGCGGCGGTTCATCTCGCTTCTCGTGCTGATGATGCG	970
QY	1033	CCGGCGTCTCTGAGCTCTTCTCTCGAGAGGAGCGCATGATG	1070
Db	971	GCGGCTGCTGACCTGTTCGCCCTCGACCGAGCGCGATG	1008

RESULT 12
US-09-252-991A-10956/c

? APPLICATION: MATEU, KUDENHIEDL ET AL.
 ? TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ? TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 ? FILE REFERENCE: 107196.136
 ? CURRENT APPLICATION NUMBER: US/09/252,991A
 ? CURRENT FILING DATE: 1999-02-18
 ? PRIOR APPLICATION NUMBER: US 60/074,788
 ? PRIOR FILING DATE: 1998-02-18
 ? PRIOR APPLICATION NUMBER: US 60/094,190
 ? PRIOR FILING DATE: 1998-07-27
 ? NUMBER OF SEQ ID NOS: 33142
 ? SEQ ID NO 10956
 ? LENGTH: 2283
 ? TYPE: DNA
 ? ORGANISM: *Pseudomonas aeruginosa*
 ? US-09-252-991A-10956

Query Match	3.3%	Score 47.6;	DB 3;	Length 2283;
Best Local Similarity	48.2%;	Pred. No. 0.053;		
Matches 134; Conservative	0;	Mismatches 144;	Indels 0	

[illegible]

RESULT 13
US-09-614-912-49

```

/ GENERAL INFORMATION:
/ APPLICANT: Allen, Steve
/ APPLICANT: Rafalski, Antoni
/ APPLICANT: Orozco, Buddy
/ APPLICANT: Miao, Gou-Hau
/ APPLICANT: Famodu, Omolayo O.
/ APPLICANT: Lee, Jian Ming
/ APPLICANT: Sakai, Hajime
/ APPLICANT: Weng, Zude
/ APPLICANT: Cai, Perry G
/ APPLICANT: Anderson, Shawn
/ TITLE OF INVENTION: Plant Metabolism Genes

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FILE REFERENCE: BB1378 US NA
CURRENT APPLICATION NUMBER: US/09/614,912
CURRENT FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: 60/143,401
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/143,412
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/146,650
PRIOR FILING DATE: 1999-07-30
PRIOR APPLICATION NUMBER: 60/170,906
PRIOR FILING DATE: 1999-12-15
PRIOR APPLICATION NUMBER: 60/172,959
PRIOR FILING DATE: 1999-12-21
PRIOR APPLICATION NUMBER: 60/172,946
PRIOR FILING DATE: 1999-12-21
NUMBER OF SEQ ID NOS: 204
SOFTWARE: Microsoft Office 97
SEQ ID NO: 49

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? TYPE: DNA
? ORGANISM: Zea mays
? FEATURES:
? NAME/KEY: unsure
? LOCATION: (1309)
? NAME/KEY: unsure
? LOCATION: (1339)
? NAME/KEY: unsure
? LOCATION: (1351)
? NAME/KEY: unsure
? LOCATION: (1402)
? NAME/KEY: unsure
? LOCATION: (1429)
? US-09-614-912-49

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Query Match	3.3%;	Score 46.4;	DB 3;	Length 1431;
Best Local Similarity	46.5%;	Pred. No. 0.094;		
Matches 186; Conservative	0;	Mismatches 211;	Indels 3;	Gaps 1

QY	546	GTATACAGCCCGGCTGGTCTGCTGCTGGGACCTGGAGGGCAATTATATTAACCTACAGAGG	608
Db	33	GCTTCTCCTCTCTCTCTCTCTCAACCATGGTGTGGCTGGACAGATCCCCCTCCCTTGTG	92
QY	609	ACCCGAGTGATCAAGCTGAAAGAGACCTATGACTTACAAGAGACTTCACTCTGGCGTCTG	668
Db	93	TTCGACGTGCGCCGCTGAGGGGCTCTCCGACATCCCGACAGACTTCATCTGGCCGGCG	152
QY	669	AAAGAGATTACGCCCGCGGATGACCGCAACGCACTGGAGAAAGGGGCTGCCGAGCCAGTG	728
Db	153	GACGAGAGCCCAACCCCGGACTCCCGCCAGAGAGCTGGCGCGCTCATGCACTTCTCC	212
QY	729	CTCTACCTGGGGGAGAAAGTTCAACAG--AGTAGCCCTTGGCGGCTGTACACACAGTAC	785
Db	213	GGGGAAGCCCGCGAAGTGTGTCCGGCAGGTCCGGCGCGCTGACACTGACAGGCTTCTTC	272
QY	786	CACTGGACGGGACACTTACGCTCTCGGCAACGCTATATGGTGGCGTTCCTCTTGGCTCTC	845
Db	273	CAGTGTGTGGGCAAGGATGAGACCGCGGCGCTGACCGGAGAGGCCACCGGTGATGAGAC	332
QY	846	TCCAAAGTGTCTCTCCACGCGCGGCCCCGCTTACGAGAGGCTGGGCACTGTGACCAAC	905
Db	333	GCTTCTTCAACCTCCGCTCCCGGACAAAGCAGCGCGGACGACCGCTCAGGGGGAGCAGC	392
QY	906	GGAGCCTTTCGCGCTCTTTCGGGGTCTTTCGACCTTTGGCTCTCA	945
Db	393	TGCGGCTACGCGACAGCTTACAGGGGCGGTTTCGCGTCA	432

RESULT 14
US-09-949-016-88511
; Sequence 88511, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 88511
LENGTH: 601
TYPE: DNA
ORGANISM: Human
US-09-949-016-88511

Query Match 3.2%; Score 46; DB 3; Length 601;
Best Local Similarity 57.7%; Pred. No. 0.095;
Matches 82; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

QY 1035 GGGGCTGTCCTCTCTCTCTCGAGGGGCGGTGAGTCTCCAGTATGTTCCGCCAGC 1094
DB 63 GGGGCTGTCCTCTCTCTCTCGAGGGGCGGTGAGTCTCCAGTATGTTCCGCCAGC 122
QY 1095 GCTCTTCGACCCCTTCTGACCAAGCGCCAGAGCTGACCGACAGAGAGAGGGGGCTCA 1154
DB 123 AGGCTCTTACCTCTGAGGCCCAATGTATAGCATGAGCGCCGAGATAGGGGGCTTT 182
QY 1155 CCTCTTATCTCTGCGGACCCAC 1176
DB 183 AGAGTAGCGCGCTGGGAGCCTC 204

RESULT 15
US-09-949-016-14248/c
Sequence 14248, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14248
LENGTH: 8991
TYPE: DNA
ORGANISM: Human
US-09-949-016-14248

Query Match 3.2%; Score 46; DB 3; Length 8991;
Best Local Similarity 57.7%; Pred. No. 0.19;
Matches 82; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

QY 1035 GGGGCTGTCCTCTCTCTCTCGAGGGGCGGTGAGTCTCCAGTATGTTCCGCCAGC 1094
DB 3532 GGGGCTGTCCTCTCTCTCTCGAGGGGCGGTGAGTCTCCAGTATGTTCCGCCAGC 3473
QY 1095 GCTCTTCGACCCCTTCTGACCAAGCGCCAGAGCTGACCGACAGAGAGAGGGGGCTCA 1154
DB 3472 AGGCTCTTACCTCTGAGGCCCAATGTATAGCATGAGCGCCGAGATAGGGGGCTTT 3413

QY 1155 CCTCTTATCTCTGCGGACCCAC 1176
DB 3412 AGAGTAGCGCGCTGGGAGCCTC 3391

Search completed: January 22, 2006, 02:40:03
Job time : 288 secs

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QY 241 CGTGAGACACTCGGCGCGGCGTGACATGACCTGTTGGAAGGCGCTACTGCTTTTACC 300
DB 241 CGTGAGACACTCGGCGCGGCGTGACATGACCTGTTGGAAGGCGCTACTGCTTTTACC 300
QY 301 CCCAGCCCCCGGACATGCGGACAGGCTTACGCTTCCACTGCTCATGCTATGCTAGTGT 360
DB 301 CCCAGCCCCCGGACATGCGGACAGGCTTACGCTTCCACTGCTCATGCTATGCTAGTGT 360
QY 361 TGGCTCTAGACAGCAAGCTTCTGCTCATCTTGGCGGGAATCCGTGGCACTCGCGCTGGT 420
DB 361 TGGCTCTAGACAGCAAGCTTCTGCTCATCTTGGCGGGAATCCGTGGCACTCGCGCTGGT 420
QY 421 TTTGGTTGGTGAAGTCTTCTGCTCATGCTTGTATAGGCGGAAATTTGGCTGTGCACT 480
DB 421 TTTGGTTGGTGAAGTCTTCTGCTCATGCTTGTATAGGCGGAAATTTGGCTGTGCACT 480
QY 481 TCAGTGAGAAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 540
DB 481 TCAGTGAGAAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 540
QY 541 CAGCGCGGCTTACAGCCCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
DB 541 CAGCGCGGCTTACAGCCCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
QY 601 TCAAGGGAAGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
DB 601 TCAAGGGAAGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
QY 661 GGGGCTGAAAGAAATTAAGCGCGGAGTACGCGAAACGCACTGGAAGAGGCGCTGCGG 720
DB 661 GGGGCTGAAAGAAATTAAGCGCGGAGTACGCGAAACGCACTGGAAGAGGCGCTGCGG 720
QY 721 ACCAGGCTCTACCTGCGGGAAGTTACACCGAGTACCGCTTGGCTGCTGCTGCTGCTGCTG 780
DB 721 ACCAGGCTCTACCTGCGGGAAGTTACACCGAGTACCGCTTGGCTGCTGCTGCTGCTGCTG 780
QY 781 AGTACCACTGCGGGAACATACGCTGCGGACGCTATGAGTGGGCTTCTGCTGCTGCTGCTG 840
DB 781 AGTACCACTGCGGGAACATACGCTGCGGACGCTATGAGTGGGCTTCTGCTGCTGCTGCTG 840
QY 841 TCTCTTCAACGTTGCTGCTTCTCAACCGCGGCGCTTCAACGAGGCTTGGCACTGCTGA 900
DB 841 TCTCTTCAACGTTGCTGCTTCTCAACCGCGGCGCTTCAACGAGGCTTGGCACTGCTGA 900
QY 901 CCAAGGAGGCTTGGGCTTCTGCGGCTTCTGCGGCTTCTGCGGCTTCTGCGGCTTCTGCGG 960
DB 901 CCAAGGAGGCTTGGGCTTCTGCGGCTTCTGCGGCTTCTGCGGCTTCTGCGGCTTCTGCGG 960
QY 961 TCTGCGGCTTCCGCTTACGCTTCTGCGGCTTCTGCGGCTTCTGCGGCTTCTGCGGCTTCTG 1020
DB 961 TCTGCGGCTTCCGCTTACGCTTCTGCGGCTTCTGCGGCTTCTGCGGCTTCTGCGGCTTCTG 1020
QY 1021 TCAAGCTGGAACCGGCTTCTGCTGCTTCTGCGGAGGCGCTGCTGCTGCTGCTGCTGCTG 1080
DB 1021 TCAAGCTGGAACCGGCTTCTGCTGCTTCTGCGGAGGCGCTGCTGCTGCTGCTGCTGCTG 1080
QY 1081 ATGTTGCGGCGGAGGCTTCTGCGGCTTCTGCGGAGGCGCTGCGGAGGCTGCGGAGGCTG 1140
DB 1081 ATGTTGCGGCGGAGGCTTCTGCGGCTTCTGCGGAGGCGCTGCGGAGGCTGCGGAGGCTG 1140
QY 1141 AGAGAGGAGGCTTCACTTATCTGCGGAGGCTGCGGAGGCTGCGGAGGCTTCTGCGGAG 1200
DB 1141 AGAGAGGAGGCTTCACTTATCTGCGGAGGCTTCTGCGGAGGCTTCTGCGGAGGCTTCTGCGG 1200
QY 1201 ACTTAAAGTATACACATTAACCTGTAAGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTG 1260
DB 1201 ACTTAAAGTATACACATTAACCTGTAAGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTG 1260
QY 1261 TGGGACATGCGAGGCGGGAAGAGTGTGCGGAGGCTGCGGAGGCTGCGGAGGCTTCTGCGG 1320
DB 1261 TGGGACATGCGAGGCGGGAAGAGTGTGCGGAGGCTGCGGAGGCTTCTGCGGAGGCTTCTGCGG 1320

QY 1321 GGGCACTGAGCGCTGCTGCGGAGGCTTCCGACATCCGCAAGGACCAAGAGAAAGTCTCC 1380
DB 1321 GGGCACTGAGCGCTGCTGCGGAGGCTTCCGACATCCGCAAGGACCAAGAGAAAGTCTCC 1380
QY 1381 TGGGCGATCTGTAATAAAGCTTTTCTTTTGTGTTT 1421
DB 1381 TGGGCGATCTGTAATAAAGCTTTTCTTTTGTGTTT 1421

RESULT 2

US-10-643-795A-5
; Sequence 5, Application US/10643795A
; Publication No. US20040241703A1
; GENERAL INFORMATION:
; APPLICANT: FREDERIC J. DESAUVAGE
; APPLICANT: GRETCHEN FRANTZ
; APPLICANT: KENNETH J. HILLAN
; APPLICANT: PAUL POLAKIS
; APPLICANT: ANDREW POLSON
; APPLICANT: VICTORIA SMITH
; APPLICANT: SUSAN D. SPENCER
; APPLICANT: THOMAS D. WU
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; FILE REFERENCE: P5026R1-US
; CURRENT APPLICATION NUMBER: US/10/643,795A
; PRIOR FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,809
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/405,645
; PRIOR FILING DATE: 2002-08-21
; PRIOR APPLICATION NUMBER: US 60/413,192
; PRIOR FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: US 60/419,008
; PRIOR FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 60/426,847
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 60/484,959
; PRIOR FILING DATE: 2003-07-02
; NUMBER OF SEQ ID NOS: 158
; SEQ ID NO 5
; LENGTH: 1450
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: Unsure
; LOCATION: 2
; OTHER INFORMATION: Unknown base
US-10-643-795A-5

Query Match 100.0%; Score 1421, DB 8; Length 1450;
Best Local Similarity 100.0%; Pred. 0;
Matches 1421; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAACAGAAAGTAAAGCTACAGACAGTGAAGAAATAGTTGCTGCGCGGTAAAGAAA 60
DB 9 GAACAGAAAGTAAAGCTACAGACAGTGAAGAAATAGTTGCTGCGCGGTAAAGAAA 68
QY 61 CTCTGTGGTACCAACCCCAAGGCTTGAAGAGAGCCCACTTCAAGCTTCTTAAAGGA 120
DB 69 CTCTGTGGTACCAACCCCAAGGCTTGAAGAGAGCCCACTTCAAGCTTCTTAAAGGA 128
QY 121 GAGGTGAGAGACTGAGACTTCAAGAGCCCACTTGGCTTCAAGCTTGAAGAGAGAG 180
DB 129 GAGGTGAGAGACTGAGACTTCAAGAGCCCACTTGGCTTGAAGAGAGAGAGAGAG 188
QY 181 CCAAGAGAGCGCTTCCCGGCTTCAAGAGAGCCCAAGCTTGTGCTGCTGCTGCTGCTG 240
DB 189 CCAAGAGAGCGCTTCCCGGCTTCAAGAGAGCCCAAGCTTGTGCTGCTGCTGCTGCTG 248
QY 241 CGTGAGACACTCGGCGGCGTGACATGACCTGTTGGAAGGCGCTTCTTAAAGC 300

QY 301 CCCAGCCCGGCGATGCGCGAGGCTTCAAGGCTTCACTGCTATTCGTTATTTCTAGTGT 360
DB 309 CCCAGCCCGGCGATGCGCGAGGCTTCAAGGCTTCACTGCTATTCGTTATTTCTAGTGT 368
QY 361 TGGCTCTAGCAGCAAGCTTCTGCTCATCTTCCGCGAGTCCGTGCGCACTCGCGCTGCT 420
DB 369 TGGCTCTAGCAGCAAGCTTCTGCTCATCTTCCGCGAGTCCGTGCGCACTCGCGCTGCT 428
QY 421 TTTGGTTGGTAGAGTTCTTCTCACTGCTGTTCAATAGCGCGAAGAAATTTGGCTGTGCACT 480
DB 429 TTTGGTTGGTAGAGTTCTTCTCACTGCTGTTCAATAGCGCGAAGAAATTTGGCTGTGCACT 488
QY 481 TCAGTGCAGAAATGTTGCTGGGTAAGTGAACAGCAACATCTTCAAAAGCTTCAGG 540
DB 489 TCAGTGCAGAAATGTTGCTGGGTAAGTGAACAGCAACATCTTCAAAAGCTTCAGG 548
QY 541 CAGCGCGCTTACAGCCGCTGTGCTGTCTGCTGCGGCTGAGGCGATTAAATTATTAAC 600
DB 549 CAGCGCGCTTACAGCCGCTGTGCTGTCTGCTGCGGCTGAGGCGATTAAATTATTAAC 608
QY 601 TCACAGGGAACCCAGTGCATCACTGAACAGAACCTTGACTTCAACAGGAGTTCACT 660
DB 609 TCACAGGGAACCCAGTGCATCACTGAACAGAACCTTGACTTCAACAGGAGTTCACT 668
QY 661 GCGGCTGAAAGAAATTAAGCGCGCGAGTAAGCGCAACGCACTGAGAAAGGCGTCCG 720
DB 669 GCGGCTGAAAGAAATTAAGCGCGCGAGTAAGCGCAACGCACTGAGAAAGGCGTCCG 728
QY 721 ACCCAAGTGTCTACCTGCGGAGAAAGTTCAACCAAGTAAGCCCTTGGCGCTGTACAC 780
DB 729 ACCCAAGTGTCTACCTGCGGAGAAAGTTCAACCAAGTAAGCCCTTGGCGCTGTACAC 788
QY 781 AGTACCACTGCGGAGCACTAAGCTTCCGCGCAAGCTAAGGCTTCTGCTTCTGCG 840
DB 789 AGTACCACTGCGGAGCACTAAGCTTCCGCGCAAGCTAAGGCTTCTGCTTCTGCG 848
QY 841 TCTCTCCAAGTGTCTCTCAACGCGCGCCGCTTACGGAAGGCTGCGCACTGCTA 900
DB 849 TCTCTCCAAGTGTCTCTCAACGCGCGCCGCTTACGGAAGGCTGCGCACTGCTA 908
QY 901 CCAACCGAGCTTCCGCGCTTCTGCGGAGTCTTCCGCTTCTGCTTCTGAGTCCG 960
DB 909 CCAACCGAGCTTCCGCGCTTCTGCGGAGTCTTCCGCTTCTGCTTCTGAGTCCG 968
QY 961 TCTGCGCGCTTCCGCGCTTCTGCGGAGTCTTCCGCTTCTGCTTCTGAGTCCG 1020
DB 969 TCTGCGCGCTTCCGCGCTTCTGCGGAGTCTTCCGCTTCTGCTTCTGAGTCCG 1028
QY 1021 TCACGCTGCAACCGCGCTCTGCTGCTTCTTCTGCGAGGCGCTGCTGAGTCTCACT 1080
DB 1029 TCACGCTGCAACCGCGCTCTGCTGCTTCTTCTGCGAGGCGCTGCTGAGTCTCACT 1088
QY 1081 ATGTTGCGCCAGCGCTTCTTCCGACCTTCTGGAACCAAGCGCAAGACTGAGCGAG 1140
DB 1089 ATGTTGCGCCAGCGCTTCTTCCGACCTTCTGGAACCAAGCGCAAGACTGAGCGAG 1148
QY 1141 AAGAGGCGGCGTCACTTCTTCTGCGGAGCCCACTGGAACAAGAGCGCTCTCCAG 1200
DB 1149 AAGAGGCGGCGTCACTTCTTCTGCGGAGCCCACTGGAACAAGAGCGCTCTCCAG 1208
QY 1201 ACTTAAATGTAATCAACACTTCTGAGGAGGAGCCCACTGGACTCTTCCCGCGCT 1260
DB 1209 ACTTAAATGTAATCAACACTTCTGAGGAGGAGCCCACTGGACTCTTCCCGCGCT 1268
QY 1261 TGGGACATGCGAGCGCGGAGAGAGTCCCGCGCTGAGGCTGAGAGAGCTCCAGAA 1320
DB 1269 TGGGACATGCGAGCGCGGAGAGAGTCCCGCGCTGAGGCTGAGAGAGCTCCAGAA 1328
QY 1321 GGGCACTGAGCGCTGCTGCGGAGGCTCGAGCACTCCGAGGCAACAGGAAAGTCTCC 1380
DB 1329 GGGCACTGAGCGCTGCTGCGGAGGCTCGAGCACTCCGAGGCAACAGGAAAGTCTCC 1388

QY 1381 TGGGCGAGTCTGTAATAAACCTTTTCTTTGTTTT 1421
DB 1389 TGGGCGAGTCTGTAATAAACCTTTTCTTTGTTTT 1429

RESULT 4
US-10-264-237-1097
Sequence 1097, Application US/10264237
Publication No. US2004009491A1
GENERAL INFORMATION:
APPLICANT: Birste et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PA131PI
CURRENT APPLICATION NUMBER: US/10/264,237
PRIOR FILING DATE: 2002-10-04
PRIOR APPLICATION NUMBER: PCT/US01/16450
PRIOR FILING DATE: 2001-05-18
PRIOR APPLICATION NUMBER: US 60/205,515
NUMBER OF SEQ ID NOS: 2876
SOFTWARE: PatentIn Ver. 3.1
SEQ ID NO: 1097
LENGTH: 1474
TYPE: DNA
ORGANISM: Homo sapiens
US-10-264-237-1097

Query Match 99.8%; Score 1418.6; DB 6; Length 1474;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1418; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAACGAGAAAGTAACGCGCTACAGACAGTGAAGAAATAGTTGCTGCGCGGCTAGAAAA 60
DB 19 GAACGAGAAAGTAACGCGCTACAGACAGTGAAGAAATAGTTGCTGCGCGGCTAGAAAA 78
QY 61 CTCTGTGCTACCAACCCCGAGGCGTTGAGAGACGCCCACTTCAAGCTTCTTAAACGA 120
DB 79 CTCTGTGCTACCAACCCCGAGGCGTTGAGAGACGCCCACTTCAAGCTTCTTAAACGA 138
QY 121 GAGGTGCGAGATCACTGACTTCCAGGCCCACTGCGGCTTGTGAGCAAGAGAGCG 180
DB 139 GAGGTGCGAGATCACTGACTTCCAGGCCCACTGCGGCTTGTGAGCAAGAGAGCG 198
QY 181 CCAAGAGCGCGCTTCCGCGCTTCCAGGAGCCCAAGTGTGCTGCTGCTGCTGCTG 240
DB 199 TCAAGAGCGCGCTTCCGCGCTTCCAGGAGCCCAAGTGTGCTGCTGCTGCTGCTG 258
QY 241 CGTGAAGCACTGCGCGCGCTGAGAGATGACCTGTGGAACGCGCTTCTGCTTTTAC 300
DB 259 CGTGAAGCACTGCGCGCGCTGAGAGATGACCTGTGGAACGCGCTTCTGCTTTTAC 318
QY 301 CCAACCGCGGATGCGCGAGGCTTCAAGGCTTCACTGCTCATCTGTTATTTAGTGT 360
DB 319 CCAACCGCGGATGCGCGAGGCTTCAAGGCTTCACTGCTCATCTGTTATTTAGTGT 378
QY 361 TGGCTCTAGCAGCAAGCTTCTGCTCATCTTCCGCGAGTCCGTGCGCACTCGCGTGT 420
DB 379 TGGCTCTAGCAGCAAGCTTCTGCTCATCTTCCGCGAGTCCGTGCGCACTCGCGTGT 438
QY 421 TTTGGTTGGTAGAGTTCTTCTCACTGCTGTTCAATAGCGCGAAGAAATTTGGCTGTGCACT 480
DB 439 TTTGGTTGGTAGAGTTCTTCTCACTGCTGTTCAATAGCGCGAAGAAATTTGGCTGTGCACT 498
QY 481 TCAGTGCAGAAATGTTGCTGGGTAAGTGAACAGCAACATCTTCAAAAGCTTCAGG 540
DB 499 TCAGTGCAGAAATGTTGCTGGGTAAGTGAACAGCAACATCTTCAAAAGCTTCAGG 558
QY 541 CAGCGCGCTTACAGCCGCTGTGCTGTCTGCTGCTGAGGCTGAGAGGCGATTAAATTATTAAC 600
DB 559 CAGCGCGCTTACAGCCGCTGTGCTGTCTGCTGCTGAGGCGATTAAATTATTAAC 618
QY 601 TCACAGGGAACCCAGTGCATCACTGAACAGAACCTTGACTTCAACAGGAGTTCACT 660

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Db      619 TCACAGGACCCGAGTCATCAGCTGAAACGACCAATTGACTCAACAGAGCTTCACT 678
Qy      661 GGGGTCTGAAAGAAATTACCGCGGAGTAAAGCGAAGCGAGAGGGGCTGCGG 720
Db      679 GGGGTCTGAAAGAAATTACCGCGGAGTAAAGCGAAGCGAGAGGGGCTGCGG 738
Qy      721 ACCGAGTGTCTACTCTGCGGAGAAAGTTCAACACGAGTAAAGCTTGGGCTGTACAC 780
Db      739 ACCGAGTGTCTACTCTGCGGAGAAAGTTCAACACGAGTAAAGCTTGGGCTGTACAC 798
Qy      781 AGTACCACTGGCGGAGCACTAGCGCTCGGCAAGCTATAGGAGGCTTCTGCTTGGC 840
Db      799 AGTACCACTGGCGGAGCACTAGCGCTCGGCAAGCTATAGGAGGCTTCTGCTTGGC 858
Qy      841 TCTCTCAACGTCGTCTCTCAACGCGGCGCGCTCTAAGAGGCTGTGCACTGTGTA 900
Db      859 TCTCTCAACGTCGTCTCTCAACGCGGCGCGCTCTAAGAGGCTGTGCACTGTGTA 918
Qy      901 CCAAGGAGCTTTCGCGCTCTTCGCGGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCG 960
Db      919 CCAAGGAGCTTTCGCGCTCTTCGCGGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCG 978
Qy      961 TCTGCGGCTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCG 1020
Db      979 TCTGCGGCTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCG 1038
Qy      1021 TCACGCTGGAACCGGCGTCTGTCCTTTCGCGGAGGCGCGTGTAGTTCGAGT 1080
Db      1039 TCACGCTGGAACCGGCGTCTGTCCTTTCGCGGAGGCGCGTGTAGTTCGAGT 1098
Qy      1081 ATGTTCGCGGAGGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCG 1140
Db      1099 ATGTTCGCGGAGGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCG 1158
Qy      1141 AGAGAGGAGGCTCACTTATCTCTGCGGAGCCCACTGCAACAGAGGCGCTTTCGAG 1200
Db      1159 AGAGAGGAGGCTCACTTATCTCTGCGGAGCCCACTGCAACAGAGGCGCTTTCGAG 1218
Qy      1201 ACTTAAATGTATCACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAA 1260
Db      1219 ACTTAAATGTATCACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAA 1278
Qy      1261 TGGGACATTCGAGGCGGAGAGAGAGTCCGCGCAGAGCTGCGGCGAGAGAGCTCAGAAA 1320
Db      1279 TGGGACATTCGAGGCGGAGAGAGAGTCCGCGCAGAGCTGCGGCGAGAGAGCTCAGAAA 1338
Qy      1321 GGGGACTGAGCGCTGCTGGCGGAGGCTTGGGACATTCGAGGCGAGGAGGAGTCTCC 1380
Db      1339 GGGGACTGAGCGCTGCTGGCGGAGGCTTGGGACATTCGAGGCGAGGAGGAGTCTCC 1398
Qy      1381 TGGGCGCATCTGTAAATTAACCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 1421
Db      1399 TGGGCGCATCTGTAAATTAACCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 1439

```

```

RESULT 5
US-10-187-657-4
; Sequence 4, Application US/10187657
; Publication No. US20030068311A1
; GENERAL INFORMATION:
; APPLICANT: Laeak, Amy K. W.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Azimzai, Yalda
; TITLE OF INVENTION: TRANSMEMBRANE PROTEIN DIFFERENTIALLY EXPRESSED IN CANCER
; FILE REFERENCE: PV-0009 CIP
; CURRENT APPLICATION NUMBER: US/10/187,657
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: PCT/US00/07817
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 60/139,565
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PERL Program

```

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; SEQ ID NO 4
; LENGTH: 1420
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030068311A1 322161CA2
US-10-187-657-4

Query Match      99.9%; Score 1415.8; DB 5; Length 1420;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1417; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1  GAAACGAGAAAGTAAAGGCTTACAGAGAGTGAAGAAATAGTTTCGCTCGCGCTAGAAAAA 60
Db      1  GAAACGAGAAAGTAAAGGCTTACAGAGAGTGAAGAAATAGTTTCGCTCGCGCTAGAAAAA 60
Qy      61  CTCTGTGCTAACCAACCCAGAGCGTTGAGAGAGCCCACTTCCAGCTTCTTAACGGA 120
Db      61  CTCTGTGCTAACCAACCCAGAGCGTTGAGAGAGCCCACTTCCAGCTTCTTAACGGA 120
Qy      121  GAGGTGAGAGACTCAAGCTTCAACAGCCCACTGGTCCAGCCTGTAGCAAGAGAGC 180
Db      121  GAGGTGAGAGACTCAAGCTTCAACAGCCCACTGGTCCAGCCTGTAGCAAGAGAGAGC 180
Qy      181  CCAAGAGCGGCTCTCCGCGCTCAGGAGCCCAAGCTTTCGCTTTCGCTGCGCGCTG 240
Db      181  CCAAGAGCGGCTCTCCGCGCTCAGGAGCCCAAGCTTTCGCTTTCGCTGCGCGCTG 240
Qy      241  CGTGCAGCACTCGGCGGCGGTGAGAGATGACCTGTGGAACGCGGTATCTGCTTTTACC 300
Db      241  CGTGCAGCACTCGGCGGCGGTGAGAGATGACCTGTGGAACGCGGTATCTGCTTTTACC 300
Qy      301  CCGAGCCCGGCAATGCGGAGGCTTCAAGCTTCACTGCTCACTGATCTGATCTGATCT 360
Db      301  CCGAGCCCGGCAATGCGGAGGCTTCAAGCTTCACTGCTCACTGATCTGATCTGATCT 360
Qy      361  TGGCTCAGAGAGAGCTTCTGCTCATCTTTCGCGGAGATCCGTCGCACTCGCGCTGCT 420
Db      361  TGGCTCAGAGAGAGCTTCTGCTCATCTTTCGCGGAGATCCGTCGCACTCGCGCTGCT 420
Qy      421  TTTGTTGTTGAGAGTTCTTTCAGTCTGTTCATTAAGCGAGAAATTTGAGTGTGCACT 480
Db      421  TTTGTTGTTGAGAGTTCTTTCAGTCTGTTCATTAAGCGAGAAATTTGAGTGTGCACT 480
Qy      481  TCAGTGAGAAATGTTCTGTGAGTAACTGTAACCAACATCTTAAGAGCTTTCAGCG 540
Db      481  TCAGTGAGAAATGTTCTGTGAGTAACTGTAACCAACATCTTAAGAGCTTTCAGCG 540
Qy      541  CAGGCGGCTTACAGCCGCTGTCGCTGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 600
Db      541  CAGGCGGCTTACAGCCGCTGTCGCTGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 600
Qy      601  TCAAGGAGCCCAAGTGCATCAGCTGAACGAGACATTAAGTGAACGAGAGCTTCACT 660
Db      601  TCAAGGAGCCCAAGTGCATCAGCTGAACGAGACATTAAGTGAACGAGAGCTTCACT 660
Qy      661  GGGCTCTGAAAGAAATTAAGCGCGGAGTACGGAACGCACTGGAAGAAAGGGGCTGCGG 720
Db      661  GGGCTCTGAAAGAAATTAAGCGCGGAGTACGGAACGCACTGGAAGAAAGGGGCTGCGG 720
Qy      721  ACCGAGTGTCTACTCTGCGGAGAAAGTTCAACCGAGTAAAGCTTGGGCGCTGTACAC 780
Db      721  ACCGAGTGTCTACTCTGCGGAGAAAGTTCAACCGAGTAAAGCTTGGGCGCTGTACAC 780
Qy      781  AGTACCACTGGCGGAGCACTAGCGCTCGGCAAGCTATAGGAGGCTTCTGCTTGGC 840
Db      781  AGTACCACTGGCGGAGCACTAGCGCTCGGCAAGCTATAGGAGGCTTCTGCTTGGC 840
Qy      841  TCTCTCAACGTCGTCTCTCAACGCGGCGCGCTCTAAGAGGCTGTGCACTGTGTA 900
Db      841  TCTCTCAACGTCGTCTCTCAACGCGGCGCGCTCTAAGAGGCTGTGCACTGTGTA 900

```


Db 1003 GCTCCGCTAGAGCTCCCTCGCGCTCACTGAGTACGCGCCCTTCTGAGTCAAGCT 1062
Qy 1028 GGGACACCGGCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1087
Db 1063 GGGACACCGGCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1122
Qy 1088 GGGACACCGGCTCTCTGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1147
Db 1123 GGGACACCGGCTCTCTGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1182
Qy 1148 GGGCTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1207
Db 1183 GGGCTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1242
Qy 1208 ATGTATCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1267
Db 1243 ATGTATCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1302
Qy 1268 TGGCAGGCGCGGGAAGAGTCCCGCCAGGCTGGGCGCAGAGAGCTCCAGAAAGGCGACT 1327
Db 1303 TGGCAGGCGCGGGAAGAGTCCCGCCAGGCTGGGCGCAGAGAGCTCCAGAAAGGCGACT 1362
Qy 1328 GAGCGCTGTGCGCGGAGGCTCGGAGATCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1387
Db 1363 GAGCGCTGTGCGCGGAGGCTCGGAGATCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1422
Qy 1388 ATCTGTAAATTAACCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 1421
Db 1423 ATCTGTAAATTAACCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 1456

RESULT 7

US-10-187-657-9

Sequence 9, Application US/10187657

Publication No. US20030068311A1

GENERAL INFORMATION:

APPLICANT: Laeak, Amy K. W.

APPLICANT: Baughn, Mariah R.

APPLICANT: Azimzai, Yalda

TITLE OF INVENTION: TRANSMEMBRANE PROTEIN DIFFERENTIALLY EXPRESSED IN CANCER

FILE REFERENCE: PV-0009 CIP

CURRENT APPLICATION NUMBER: US/10/187,657

CURRENT FILING DATE: 2002-07-01

PRIOR APPLICATION NUMBER: PCT/US00/07817

PRIOR FILING DATE: 2000-03-22

PRIOR APPLICATION NUMBER: 60/139,565

PRIOR FILING DATE: 1999-06-16

NUMBER OF SEQ ID NOS: 9

SOFTWARE: PERL Program

SEQ ID NO 9

LENGTH: 1594

TYPE: DNA

ORGANISM: Mus musculus

FEATURE:

NAME/KEY: misc_feature

OTHER INFORMATION: Incycle ID No. US20030068311A1 110769_Mm.1

US-10-187-657-9

Query Match 48.8%; Score 693; DB 5; Length 1594;
Best Local Similarity 75.9%; Pred. No. 4,2e-204;
Matches 914; Conservative 0; Mismatches 275; Indels 16; Gaps 4;
Qy 230 CTGCGCGCTCTGTCAGACACTGCGCGCGCTGTCAGACACTGTCGAAAGCGCGTACT 289
Db 107 CTCGCTCTCTGCGAAGTCTCTGAACTTCTTGAAGATGATCTGTCGAGCGGCGTACT 166
Qy 290 GCGCTTTTACCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 349
Db 167 ACCCTTTTACCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 226
Qy 350 TCTAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 409
Db 227 CTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 286

```
RESULT 8
US-10-187-657-5
; Sequence 5, Application US/10187657
; Publication No. US20030068311A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy K.W.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Azimail, Yalda
; TITLE OF INVENTION: TRANSMEMBRANE PROTEIN DIFFERENTIALLY EXPRESSED IN CANCER
; FILE REFERENCE: PV-0009 CIP
; CURRENT APPLICATION NUMBER: US/10/187,657
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: PCT/US00/07817
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 60/139,565
; PRIOR FILING DATE: 1999-06-16
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PERL Program
; SEQ ID NO 5
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20030068311A1 3221661R6
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 455, 480, 483
; OTHER INFORMATION: a, t, c, g, or other
US-10-187-657-5

Query Match
Best Local Similarity 32.3%; Score 459.6; DB 5; Length 522;
Matches 510; Conservative 0; Mismatches 12; Indels 5; Gaps 4;

QY 1 GAACGAGAAAGTAAAGGCTACAGACAGTGAAGAAATAGTTGCTGCCGCCGCTAGAAAA 60
DB 1 GAACGAGAAAGTAAAGGCTACAGACAGTGAAGAAATAGTTGCTGCCGCCGCTAGAAAA 60
QY 61 CTCTGTCGGTACCAACCCGAGAGCGTTGAGAGAGCCCTCCAGCTTCCCTTAACGGA 120
DB 61 CTCTGTCGGTACCAACCCGAGAGCGTTGAGAGAGCCCTCCAGCTTCCCTTAACGGA 120
QY 121 GAGGTGCAAGACTCAGACTTCAACCAAGCCACTGCTGCCAGCTTGTAGCAAAAGAGAG 180
DB 121 GAGGTGCAAGACTCAGACTTCAACCAAGCCACTGCTGCCAGCTTGTAGCAAAAGAGAG 180
QY 181 CCAAGAGCGCGCTCTCCCGGTCAGGCAAGCCCAAGCTTGTGCTGCTGCGCGCTG 240
DB 181 CCAAGAGCGCGCTCTCCCGGTCAGGCAAGCCCAAGCTTGTGCTGCTGCGCGCTG 240
QY 241 CGTGAGCACTCGGCGCGGTGAGCATACCTGTGGAACGGCGGTACGCTTTTACC 300
DB 241 CGTGAGCACTCGGCGCGGTGAGCATACCTGTGGAACGGCGGTACGCTTTTACC 300
QY 301 CCCAGCCCCGAGCTGCGCAGAGCTTCAAGGCTTCAATGCTATTTCTAGTGT 360
DB 301 CCCAGCCCCGAGCTGCGCAGAGCTTCAAGGCTTCAATGCTATTTCTAGTGT 360
QY 361 TGGCTCTAGCAGAACTTCTGCTCATCTTTCGCGGAGATCCGTGCACTCGCGTGT 420
DB 361 TGG-TCCTAGCAGAA-CTCTGCTCATCTTTCGCGGAGATCCGTGCACTCGCGTGT 417
QY 421 TTTGCTGTGAGAGTTCTTCTCAAGTCTGTCTATAGGCGCAAGAAATTTGGCTGTGCACT 480
DB 421 TTTGCTGTGAGAGTTCTTCTCAAGTCTGTCTATAGGCGCAAGAAATTTGGCTGTGCACT 477
QY 481 TCAGTCAGAAATGTTCTGTGCTGCTAGTGAACCAACATCTTAC 527
DB 478 TCNGT-NAGAAATGTTCTGTGCTGCTAGTGAACCAACATCTTAC 522
```

```
RESULT 9
US-10-773-236-69
; Sequence 69, Application US/10773236
; Publication No. US20050208602A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et. al.
; TITLE OF INVENTION: 89 Human Secreted Proteins
; FILE REFERENCE: P5751P1
; CURRENT APPLICATION NUMBER: US/10/773,236
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/311,085
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,209
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/US02/25107
; PRIOR FILING DATE: 2002-08-08
; PRIOR APPLICATION NUMBER: 60/330,629
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: PCT/US02/33985
; PRIOR FILING DATE: 2002-10-24
; PRIOR APPLICATION NUMBER: 60/331,046
; PRIOR FILING DATE: 2001-11-07
; PRIOR APPLICATION NUMBER: PCT/US02/35606
; PRIOR FILING DATE: 2002-11-06
; PRIOR APPLICATION NUMBER: 60/358,554
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: PCT/US03/04819
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/358,714
; PRIOR FILING DATE: 2002-02-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 396
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 69
; LENGTH: 580
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-773-236-69

Query Match
Best Local Similarity 29.1%; Score 413; DB 9; Length 580;
Matches 413; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAACGAGAAAGTAAAGGCTACAGACAGTGAAGAAATAGTTGCTGCCGCCGCTAGAAAA 60
DB 5 GAACGAGAAAGTAAAGGCTACAGACAGTGAAGAAATAGTTGCTGCCGCCGCTAGAAAA 64
QY 61 CTCTGTCGGTACCAACCCGAGAGCGTTGAGAGAGCCCTCCAGCTTCCCTTAACGGA 120
DB 65 CTCTGTCGGTACCAACCCGAGAGCGTTGAGAGAGCCCTCCAGCTTCCCTTAACGGA 124
QY 121 GAGGTGCAAGACTCAGACTTCAACCAAGCCACTGCTGCCAGCTTGTAGCAAAAGAGAG 180
DB 125 GAGGTGCAAGACTCAGACTTCAACCAAGCCACTGCTGCCAGCTTGTAGCAAAAGAGAG 184
QY 181 CCAAGAGCGCGCTCTCCCGGTCAGGCAAGCCCAAGCTTGTGCTGCTGCGCGCTG 240
DB 185 CCAAGAGCGCGCTCTCCCGGTCAGGCAAGCCCAAGCTTGTGCTGCTGCGCGCTG 244
QY 241 CGTGAGCACTCGGCGCGGTGAGCATACCTGTGGAACGGCGGTACGCTTTTACC 300
DB 245 CGTGAGCACTCGGCGCGGTGAGCATACCTGTGGAACGGCGGTACGCTTTTACC 304
QY 301 CCCAGCCCCGAGCTGCGCAGAGCTTCAAGGCTTCAATGCTATTTCTAGTGT 360
DB 305 CCCAGCCCCGAGCTGCGCAGAGCTTCAAGGCTTCAATGCTATTTCTAGTGT 364
QY 361 TGGCTCTAGCAGAACTTCTGCTCATCTTTCGCGGAGATCCGTGCACTCGCGTGT 413
DB 365 TGGCTCTAGCAGAACTTCTGCTCATCTTTCGCGGAGATCCGTGCACTCG 417
```

RESULT 10

US-10-450-763-2367/c
Sequence 2367, Application US/10450763
Publication No. US20050196754A1
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
PRIOR FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOFTWARE: Custom
SEQ ID NO 2367
LENGTH: 406
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIMILAR
LOCATION: (229)..
OTHER INFORMATION: 41% homologous to Homo sapiens Human secreted protein, SEQ ID
US-10-450-763-2367

Query Match 28.3%; Score 402.8; DB 9; Length 406;
Best Local Similarity 99.5%; Pred. No. 3,4e-114; Indels 0; Gaps 0;
Matches 404; Conservative 0; Mismatches 2;

QY 8 GAAAGTACCGCTACAGACAGTGAAGAAATAGTTGCTGCGCGCTAGAAAACCTGTGTC 67
DB 406 GAAAGTACCGCTACAGACAGTGAAGAAATAGTTGCTGCGCGCTAGAAAACCTGTGTC 347
QY 68 GGTACCAACCCAGAGGCTTGAAGAGACCCCACTTCAAGCTTCTTAAGGAGAGTGC 127
DB 346 GGGGCAACCCAGAGGCTTGAAGAGACCCCACTTCAAGCTTCTTAAGGAGAGTGC 287
QY 128 AGGACTAGACTTACAGACGCACTCGATCCAGCTTGTAGCAAGAGAGAGCAAGGA 187
DB 286 AGGACTAGACTTACAGACGCACTCGATCCAGCTTGTAGCAAGAGAGAGCAAGGA 227
QY 188 CGGCTCTCCGCTGCGAGGAGCCCAAGCTTGTGCTTGCCTGCGCGCTGCTGTCAG 247
DB 226 CGGCTCTCCGCTGCGAGGAGCCCAAGCTTGTGCTTGCCTGCGCGCTGCTGTCAG 167
QY 248 CACTCGCGCGCTGCGAGCATGACCTGTGGAAGGGGTACTGCTTTTAAACCCAGCC 307
DB 166 CACTCGCGCGCTGCGAGCATGACCTGTGGAAGGGGTACTGCTTTTAAACCCAGCC 107
QY 308 CCGGCAAGCGCGAGGCTTCAAGCGCTTCACTGCTGATTTAGAGTTTGGGCTCT 367
DB 106 CCGGCAAGCGCGAGGCTTCAAGCGCTTCACTGCTGATTTAGAGTTTGGGCTCT 47
QY 368 AGCAGCAAGCTTCTGCTCATCTTGCAGGAGATCGTGGCCACTCG 413
DB 46 AGCAGCAAGCTTCTGCTCATCTTGCAGGAGATCGTGGCCACTCG 1

RESULT 11
US-09-925-065A-72673/c
Sequence 72673, Application US/09925065A
Publication No. US20050228172A9
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single
FILE REFERENCE: 108827.135
CURRENT APPLICATION NUMBER: US/09/925,065A
CURRENT FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: US 60/243,096

PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 60/252,147
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/250,092
PRIOR FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/261,766
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/289,846
PRIOR FILING DATE: 2001-05-09
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 72673
LENGTH: 1376
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-065A-72673

Query Match 27.9%; Score 396.6; DB 4; Length 1376;
Best Local Similarity 99.7%; Pred. No. 3.9e-112; Indels 0; Gaps 0;
Matches 396; Conservative 1; Mismatches 0;

QY 1 GAACCGAAGAAAGTACGCGCTACAGACAGTGAAGAAATAGTTGCTGCGCGCTAGAAA 60
DB 397 GAACCGAAGAAAGTACGCGCTACAGACAGTGAAGAAATAGTTGCTGCGCGCTAGAAA 338
QY 61 CTCTGTGCTGACCAACCCAGAGGCTTGAAGAGAGCCCACTTCAAGCTTCTTAACGA 120
DB 337 CTCTGTGCTGACCAACCCAGAGGCTTGAAGAGAGCCCACTTCAAGCTTCTTAACGA 278
QY 121 GAGTGCAGAGACTCAGACTTACAGACGCACTGCTCCAGCTTGTAGCAAGAGAGAG 180
DB 277 GAGTGCAGAGACTCAGACTTACAGACGCACTGCTCCAGCTTGTAGCAAGAGAGAG 218
QY 181 CCAAGACGCGCTCTCCCGCTGCAAGAGAGCCCAAGCTTCTGCTGCTGCGCGCTG 240
DB 217 YCAAGACGCGCTCTCCCGCTGCAAGAGAGCCCAAGCTTCTGCTGCTGCGCGCTG 158
QY 241 CGTGCAGCACTCGCGCGCGCTGAGAGATGACCTGTGGAAGGGGTACTGCTTTTAA 300
DB 157 CGTGCAGCACTCGCGCGCGCTGAGAGATGACCTGTGGAAGGGGTACTGCTTTTAA 98
QY 301 CCGAGCCCGCGAGCGCGAGGCTTCAAGCTTCACTGCTCATGTTATTCTAGTGT 360
DB 97 CCGAGCCCGCGAGCGCGAGGCTTCAAGCTTCACTGCTCATGTTATTCTAGTGT 38
QY 361 TGGCTTAGAGCAAGCTTCTGCTCATCTTGCAGG 397
DB 37 TGGCTTAGAGCAAGCTTCTGCTCATCTTGCAGG 1

RESULT 12
US-10-094-749-1195/c
Sequence 1195, Application US/10094749
Publication No. US20030219741A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHITO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOKYU
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO

```

1  TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
2  FILE REFERENCE: 084335/0160
3  CURRENT APPLICATION NUMBER: US/10/094,749
4  CURRENT FILING DATE: 2002-03-12
5  PRIOR APPLICATION NUMBER: 60/350,435
6  PRIOR FILING DATE: 2002-01-24
7  PRIOR APPLICATION NUMBER: JP 2001-328381
8  PRIOR FILING DATE: 2001-09-14
9  NUMBER OF SEQ ID NOS: 3381
10 SOFTWARE: PatentIn Ver. 2.1
11 SEQ ID NO 1195
12 LENGTH: 2684
13 TYPE: DNA
14 ORGANISM: Homo sapiens
15 US-10-094-749-1195

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Query Match	27.5%	Score 391,	DB 6;	Length 2684;
Best Local Similarity	97.5%;	Pred. NO. 2.5e-110;		
Matches 397;	Conservative	0;	Mismatches 10;	Indels 0;
				Gaps 0;

QY	1015	TCCTGGGTCAACCTCTGGCAACACCGCGCTCTGTGCTCTTCTCTGGAGGGGCGGTGTGAATC	1074
Db	2363	TTTGGATCCCAACCGCCACAGGCGTCTGTGCTCTTCTCTGGAGGGGCGGTGTGAATC	2304
QY	1075	TCCTGATATGTTCCGCGCCAGCGCTCTTGGCAACCTTCTTGACCAAGCGCCAGAGCTGCA	1134
Db	2303	TCCTGATATGTTCCGCGCCAGCGCTCTTCCCAACCTTCTTGACCAAGCGCCAGAGCTGCA	2244
QY	1135	GCCAGGAGAGAGGGGGGCTCACCTCTTATCTCTGGGACCCCACTGACACAAAGACGGCGCTC	1194
Db	2243	GCCAGGAGAGAGGGGGGCTCACCTCTTATCTCTGGGACCCCACTGACACAAAGACGGCGCTC	2184
QY	1195	TCCCGAGCTTAAATGTATCAACAATACTGTGAGGGGGACCCCAATCTGAGCTCTCTCC	1254
Db	2183	TCCCGAGCTTAAATGTATCAACAATACTGTGAGGGGGACCCCAATCTGAGCTCTCTCC	2122
QY	1255	CCGCTTGGGACATCGACAGGCGCGGGAGCAGTGCGCCGCGCAGGCGCTGGGCGAGAGAGCTC	1314
Db	2123	CCGCTTGGGACATCGACAGGCGCGGGAGCAGTGCGCCGCGCAGGCGCTGGGCGAGAGAGCTC	2064
QY	1315	CAGGAAAGGGCACTGAGCGCTGTGTGGCGCGAGGCTTGGACATTCGCGAGGCAACAGGGAAA	1374
Db	2063	CAGGAAAGGGCACTGAGCGCTGTGTGGCGCGAGGCTTGGACATTCGCGAGGCAACAGGGAAA	2004
QY	1375	GTCTCTCGGGGCGGATCTGTAAATAAAGCTTTTTTCTTTGTGTTTTT	1421
Db	2003	GTCTCTCGGGGCGGATCTGTAAATAAAGCTTTTTTCTTTGTGTTTTT	1957

```

RESULT 13
US-10-187-657-7
; Sequence 7, Application US/10187657
; Publication No. US20030068311A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy K.W.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Azimzai, Yalda
; TITLE OF INVENTION: TRANSMEMBRANE PROTEIN DIFFERENTIALLY EXPRESSED IN CANCER
; FILE REFERENCE: PV-0009 CIP
; CURRENT APPLICATION NUMBER: US/10/187,657
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: PCT/US00/07817
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 60/139,565
; PRIOR FILING DATE: 1999-06-16
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 450
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature

```

```

: OTHER INFORMATION: Incyte ID No. US20030068311A1 SBQAO4510D1
:
: FEATURE:
:   NAME/KEY: unsure
:   LOCATION: 140, 165, 203, 237, 269, 289, 307, 338, 344, 347, 354, 390, 430, 445
:   OTHER INFORMATION: a, t, c, g, or other
: US-10-187-657-7

```

Query Match	27.1%	Score 385.8	DB 5	Length 450
Best Local Similarity	93.7%	Pred. No. 6.6e-109		
Matches 404	0	Mismatches 26	Indels 1	Gaps 1

QY	624	CTGAACAGACGACATTGACTACACAGACAGATTACCTGGCGCTGGAAGAGAAATTACGCC	683
Db	21	CTGAACAGACGACATTGACTACACAGACAGATTACCTGGCGCTGGAAGAGAAATTACGCC	80
QY	684	GCGGAGTACCGGAAACGCACTGGAGAAAGGGCTGCCGAGCCCAATGCTCTACTCTGGCGGAG	743
Db	81	GCGGAGTACCGGAAACGCACTGGAGAAAGGGCTGCCGAGCCCAATGCTCTACTCTGGCGGAG	140
QY	744	AAGTTCAACCGGATAGCCCTTGGGCGCTGTAACCAAGTACCAACCTGGCGGGAACATAC	803
Db	141	AAGTTCAACCGGATAGCCCTTGGGCGCTGTAACCAAGTACCAACCTGGCGGGAACATAC	200
QY	804	GCCTCGCGCAACGCTATGGGTGGCCGTTCTGTCTTGGCTCTCTCCAAAGTGTGCTTCC	863
Db	201	GCNCTCGCCAAACGCTATGGGTGGCGTTCTGTCTTGGNCTCTCCAAAGTGTGCTTCC	260
QY	864	ACGCGCGGCCCCGCTCTACGAGAGGCTTGGCACTGTGAACACCGGAGCTTGGCGCTCTTC	923
Db	261	ACGCGCGGACNCCGCTCTACGAGAGGCTTGGMACTGTGAACACCGGAGCTTGGCGCTCTTC	320
QY	924	GGGGCTTTCGCTTGGGCTCCATCTCTTACGATGGCGGCTCTGCGCGCTCGGCTTAGGCTCC	983
Db	321	GGGGCTTTCGCTTGGGCTCCATCTCTTACGATGGGCTGAGGCTCTTGGCGGATACGCTTAGGCTCC	380
QY	984	TCCGCGCTCAACCACTCAGTACGCGGCGCGCTTCTGGGTCAAGCTTGGCAACCGGCGTCTCG	1043
Db	381	TCCGCGCTCAACCACTCAGTACGCGGCGCGCTTCTGGGTCAAGCTTGGCAACCGGCGTCTCG	439
QY	1044	TGCGCTCTTCCCT	1054
Db	440	TGCGCTCTTCCCT	450

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RESULT 14
US-09-759-130B-424
/ Sequence 424, Application US/09759130B
/ Publication No. US2003022279A1
/ GENERAL INFORMATION:
/ APPLICANT: Millennium Pharmaceuticals, Inc.
/ APPLICANT: McCarthy, Sean A
/ APPLICANT: Fraser, Christopher C
/ APPLICANT: Sharp, John D
/ APPLICANT: Barnes, Thomas S
/ APPLICANT: Kirsht, Susan J
/ APPLICANT: Mackay, Charles R
/ APPLICANT: Myers, Paul S
/ APPLICANT: Leiby, Kevin R
/ APPLICANT: Wrighton, Nicolas
/ APPLICANT: Goodearl, Andrew
/ APPLICANT: Holtzman, Douglas A
/ TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
/ TITLE OF INVENTION: PROGNOSTIC, DIAGNOSTIC, PREVENTIVE,
/ TITLE OF INVENTION: THERAPEUTIC, AND OTHER
/ TITLE OF INVENTION: US$
/ FILE REFERENCE: MP100-5350MANIM
/ CURRENT APPLICATION NUMBER: US/09/759,130B
/ CURRENT FILING DATE: 2002-09-16
/ PRIOR APPLICATION NUMBER: US 09/479,249
/ PRIOR FILING DATE: 2000-01-07
/ PRIOR APPLICATION NUMBER: US 09/559,497
/ PRIOR FILING DATE: 2000-04-27
/ PRIOR APPLICATION NUMBER: US 09/578,063
/ PRIOR FILING DATE: 2000-05-24

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Db      441 GAAAGGAGCTGCGAGACCTGTGTGTGTAAGCTGAGAGAGTTCACTCCAGAGAAAGCCCATG 500
Qy      767 GGGCTGTATACCAACAGTACCACTTGGCGGGAGACATAAGCTTCGGCCACGCTATGGGTGGC 826
Db      501 TGGCCCTATACCCGACAGTACCGCTGGCGGGAGACATACCTCAGCCATGCTATGGGTGGC 560
Qy      827 GTTCTGCTTCTGAGCTCCCTCTCCAAAGTGTGCTCTCCAGCGGGCCCGCTCTAGCGAGAG 886
Db      561 ATTCTCTGCTGCTGCTGCTGGCCATGTGATGCTCTCCATGCTGTGCTGTGTATATGTGG 620
Qy      887 CCTGGCACTGTGACCAACCGAGCCTTTCGCGCTTTG--GAGTCTTGCCCTTGGCTTC 943
Db      621 CTACATGCTATTTGGCCAGGGGATCTTCCAGGCTGTTGGCTGTGCTCTTCTTCCATGGC 680
Qy      944 CATCTTAGCGTGCGGCTTGGCCGCTCCGCTTAGGCTCTCCGCGCTCACCACTAGTA 1003
Db      681 CACATCACTCACCTCAACCTGTCCCTGTGCACTGGGCGCTTGTGTGCTGATATCACCAC 740
Qy      1004 CGGCGCGGCTTCTGAGTCAAGCTGGCAACCGGCGTCTGTGCTCTTCTCTGAGAGGGGC 1063
Db      741 TGGGCTGTGCTTGTGATCACATTGACACAGGACTGTGTGTGCTGTGGCTGGC 800
Qy      1064 CGTGTGAGTCTCCAGTATGTTGAGCCAGCGCTTTCGACCCCTTCTGAGCCAAAGCGC 1123
Db      801 TATGGCGGTGGGCCACAGGATGACGCTCACAGGCTGAAGGCTTCTTCAACCAAGAGTGT 860
Qy      1124 CAAGCA 1129
Db      861 GGATGA 866
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Search completed: January 22, 2006, 03:01:37
Job time : 1288 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 21, 2006, 22:44:31 ; Search time 320 Seconds

(without alignments)
3660.288 Million cell updates/sec

Title: US-09-937-059-57

Perfect score: 1421

Sequence: 1 gaccgggaagaagaagcgt.....ctttttctttctttt 1421

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 6049916 seqs, 412136615 residues 12099832

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Published Applications NA New:

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11: /cgn2_6/ptodaca/1/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	44.8	3.2	2319	US-11-136-527-1934	Sequence 1934, App
2	43	3.0	1006	US-10-821-234-422	Sequence 422, App
3	43	3.0	1071	US-11-000-688-1164	Sequence 1164, App
4	42.6	3.0	88421	US-11-205-109-1	Sequence 1, Appli
5	41.8	2.9	88421	US-11-205-109-1	Sequence 1, Appli
6	41.6	2.9	1400	US-11-136-527-4440	Sequence 4440, App
7	41.6	2.9	2305	US-11-136-527-344	Sequence 344, App
8	41.6	2.9	12309	US-10-995-561-13450	Sequence 13450, A
9	41.6	2.9	95832	US-10-995-561-13273	Sequence 13273, A
10	41.6	2.9	173602	US-11-121-086-25	Sequence 25, Appli
11	41.1	2.9	2432	US-10-750-185-29908	Sequence 29908, A
12	41.1	2.9	2432	US-10-750-185-29908	Sequence 29908, A
13	41.1	2.9	3886	US-11-087-623-29908	Sequence 37, Appli
14	41.1	2.9	3886	US-11-087-623-29908	Sequence 37, Appli
15	41.1	2.9	3886	US-11-087-623-29908	Sequence 37, Appli
16	40.8	2.9	2862	US-11-037-243-7	Sequence 12765, A
17	40.4	2.8	201	US-10-995-561-12765	Sequence 224, App
18	40.4	2.8	11438	US-11-075-400-17	Sequence 17, Appli
19	40	2.8	2797	US-10-995-561-499	Sequence 499, App
20	40	2.8	11612	US-10-883-512-113	Sequence 113, App
21	39.8	2.8	717	US-10-883-512-113	Sequence 109, App
22	39.8	2.8	895	US-10-883-512-113	Sequence 109, App

23	39.8	2.8	895	US-10-883-512-112	Sequence 112, App
24	39.8	2.8	955	US-10-883-512-110	Sequence 110, App
25	39.8	2.8	34875	US-10-775-169-316	Sequence 316, App
26	39.8	2.8	164810	US-11-121-086-4	Sequence 4, Appli
27	39.8	2.8	172543	US-11-121-086-6	Sequence 6, Appli
28	39.2	2.8	2133	US-11-143-980-13	Sequence 13, Appli
29	39.2	2.8	116856	US-11-143-980-13	Sequence 1, Appli
30	38.8	2.7	10800	US-11-019-711-5	Sequence 5, Appli
31	38.8	2.7	10809	US-11-019-711-5	Sequence 1, Appli
32	38.4	2.7	1494	US-11-143-980-26	Sequence 26, Appli
33	38.4	2.7	157224	US-11-112-908-51	Sequence 51, Appli
34	38.4	2.7	161726	US-11-112-908-48	Sequence 48, Appli
35	38.4	2.7	161726	US-11-112-908-52	Sequence 52, Appli
36	38.4	2.7	170189	US-11-112-908-50	Sequence 50, Appli
37	38.2	2.7	850	US-10-883-512-114	Sequence 114, App
38	38.2	2.7	3200	US-10-645-441-13	Sequence 13, Appli
39	38	2.7	1110	US-10-432-483-14	Sequence 14, Appli
40	38	2.7	1897	US-10-775-169-236	Sequence 236, App
41	38	2.7	8651	US-10-432-483-48	Sequence 48, Appli
42	37.8	2.7	963	US-10-858-730-182	Sequence 182, App
43	37.8	2.7	1725	US-10-821-234-772	Sequence 772, App
44	37.8	2.7	1883	US-11-012-668-9	Sequence 9, Appli
45	37.2	2.6	1527	US-11-073-185-56	Sequence 56, Appli

ALIGNMENTS

RESULT 1
US-11-136-527-1934
; Sequence 1934, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1934
; LENGTH: 2319
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-1934

Query Match 3.2%; Score 44.8; DB 8; Length 2319;
Best Local Similarity 51.5%; Pred. No. 0.085;
Matches 103; Conservative 0; Mismatches 97; Indels 0; Gaps 0;

QY	857	GCTCTCCACGCGCGCCGCTCTACGAGGCTTGCACTGTCACACGAGCCTTGGC	916
DB	776	GCAAGCGGTGTGTCTGTGCGACGCGGCTGTCTATGTTGCGGAGGACCT	835
QY	917	GCTCTCGGAGTCTTGCGCTTGCTTCATCTTACGCTGCGGCTTCCGCT	976
DB	836	GCGATCTCCACATCTGCAAGGCTTCATCCGCGCCAGCTCATCCGCTCGCCGAGC	895
QY	977	AGGCTCTCGCGCGCTGCACTGATGAGGCGCGCTTGAGGTCACGCTGCAACCG	1036
DB	896	GCTGAGGAGGAGTATCTCTCTGACACAGACCTTAGCTGAGCTTGCACAGG	955
QY	1037	CGTCTGTGCTCTTCTCTCG	1056
DB	956	GGAAGACGCGCTTCTCTCG	975

RESULT 2
US-10-821-234-422
; Sequence 422, Application US/10821234

Publication No. US20050255114A1
GENERAL INFORMATION:
APPLICANT: Labat, Ivan
APPLICANT: Stache-Crain, Birgit
APPLICANT: Andarmant, Susan
APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
FILE REFERENCE: 821A
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704
SOFTWARE: pt_seq_genes Version 1.0
SEQ ID NO 422
LENGTH: 1006
TYPE: DNA
ORGANISM: Homo sapiens
US-10-821-234-422

Query Match 3.0%; Score 43; DB 7; Length 1006;
Best Local Similarity 48.9%; Pred. No. 0.18;
Matches 115; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

QY 722 CCCAGTCTCTACCTGGCGGAGAGTTTCACACCGAGTAGCCCTTGCGGCTGTACACCA 781
DB 295 CCGTGTCTACAGCTGTCCGAGAGGCGACACTGGGCCCTGTGTGGCCCTGTGCGCTG 354
QY 782 GTACACCTGTGGCGGACACTACGCTTGGCCACTATGTGGTGGCTTGTCTTGGCT 841
DB 355 GCAGCGCGTGGACCGGACGCTGGCACCGGGAACTCTGTGACGTTGGCGGCTGGGGCAT 414
QY 842 CCTCTCAACGTGTCTCTCCACGCGGCCGCTCTACGAGGCTGGCACTGTGAC 901
DB 415 AGTCAACACGCGCGCGCGCCCGGACAGCTGTGACAGCTGTCTTGTGCAGTGTGGA 474
QY 902 CACCGAGCCTTGCGGCTCTTGGGGGTCTTGCCCTTGCCATCTAGCGTG 956
DB 475 CCGCGCACCTGTGAACCGGCGACGACACGACGCGCGCATATCCGAGGCGTTG 529

RESULT 3
US-11-000-688-1164
Sequence 1164, Application US/11000688
Publication No. US20050287544A1
GENERAL INFORMATION:
APPLICANT: BERTUCCI, Francois
APPLICANT: HOULGATTE, Remi
APPLICANT: BIRNBAUM, Daniel
TITLE OF INVENTION: GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS
FILE REFERENCE: 1423-R-03
CURRENT APPLICATION NUMBER: US/11/000,688
CURRENT FILING DATE: 2004-12-01
PRIOR APPLICATION NUMBER: US 60/525,987
PRIOR FILING DATE: 2003-12-01
NUMBER OF SEQ ID NOS: 1596
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1164
LENGTH: 1071
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial sequences: primer
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1071)
OTHER INFORMATION: d component of complement (adipsin) (DF)
OTHER INFORMATION: gene.
US-11-000-688-1164

Query Match 3.0%; Score 43; DB 8; Length 1071;
Best Local Similarity 48.9%; Pred. No. 0.18;
Matches 115; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

QY 722 CCCAGTCTCTACCTGGCGGAGAGTTTCACACCGAGTAGCCCTTGCGGCTGTACACCA 781
DB 324 CCGTGTCTACAGCTGTCCGAGAGGCGACACTGGGCCCTGTGTGGCCCTGTGCGCTG 383
QY 782 GTACACCTGTGGCGGACACTACGCTTGGCCACTATGTGGTGGCTTGTCTTGGCT 841
DB 384 GCAGCGCGTGGACCGGACGTTGGCACCGGAACTCTGTGACGTTGGCGCGGCTGGGGCAT 443
QY 842 CCTCTCAACGTGTCTCTCCACGCGGCCGCTCTACGAGGCTGGCACTGTGAC 901
DB 444 AGTCAACACGCGCGCGCGCCCGGACAGCTTGCAGACGTTCTTGTCCAGTGTGGA 503
QY 902 CACCGAGCCTTGCGGCTCTTGGGGGTCTTGCCCTTGCCATCTAGCGTG 956
DB 504 CCGCGCACCTGTGAACCGGCGACGACACGACGCGCGCATATCCGAGGCGTTG 558

RESULT 4
US-11-205-109-1/C
Sequence 1, Application US/11205109
Publication No. US20050287641A1
GENERAL INFORMATION:
APPLICANT: Farnet, Chris
APPLICANT: Zazopoulos, Emmanuel
APPLICANT: Staffa, Alfredo
TITLE OF INVENTION: GENE CLUSTER FOR RAMOPLANTIN BIOSYNTHESIS
FILE REFERENCE: 3002-2US
CURRENT APPLICATION NUMBER: US/11/205,109
CURRENT FILING DATE: 2005-08-17
PRIOR APPLICATION NUMBER: US/09/976,059
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: US 60/239,924
PRIOR FILING DATE: 2000-10-13
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 88421
TYPE: DNA
ORGANISM: Actinoplanes sp.
FEATURE:
NAME/KEY: misc feature
LOCATION: (2077)..(3078)
OTHER INFORMATION: ORF 1; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (3118)..(4032)
OTHER INFORMATION: ORF 2; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (4038)..(5048)
OTHER INFORMATION: ORF 3; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (6665)..(5814)
OTHER INFORMATION: ORF 4; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (7703)..(6693)
OTHER INFORMATION: ORF 5; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (9464)..(8130)
OTHER INFORMATION: ORF 6; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (9691)..(10761)
OTHER INFORMATION: ORF 7; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (12751)..(10829)
OTHER INFORMATION: ORF 8; negative strandedness
FEATURE:

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; LOCATION: (81909)..(81682) negative strandedness
; OTHER INFORMATION: ORF 27;
FEATURE:
NAME/KEY: misc_feature
LOCATION: (82346)..(82062)
OTHER INFORMATION: ORF 28; negative strandedness
FEATURE:
NAME/KEY: misc_feature
LOCATION: (82587)..(84446)
OTHER INFORMATION: ORF 29; positive strandedness
FEATURE:
NAME/KEY: misc_feature
LOCATION: (84481)..(85548)
OTHER INFORMATION: ORF 30; positive strandedness
FEATURE:
NAME/KEY: misc_feature
LOCATION: (85556)..(86845)
OTHER INFORMATION: ORF 31; positive strandedness
FEATURE:
NAME/KEY: misc_feature
LOCATION: (87372)..(86803)
OTHER INFORMATION: ORF 32; negative strandedness
FEATURE:
NAME/KEY: misc_feature
LOCATION: (87454)..(88420)
OTHER INFORMATION: ORF 33; positive strandedness; N-terminus only
US-11-205-109-1

Query Match          3.0%; Score 42.6; DB 8; Length 88421;
Best local similarity 46.5%; Pred. No. 1.4;
Matches 138; Conservative 0; Mismatches 159; Indels 0; Gaps 0;

QY      839 GCCTCTCTCCACGTCGTCTCTTCCAGCGGCCGCCGCTCAAGAGCGCTGACAATGCT 898
Db       13270 GGAGCGCTCGCGCGTCTTAATGCAGCCTTGCGCCGCGAAGCGGCCCCGGCGGCGCA
           |||||
QY      899 GACCACGAGAGCTTCGCGCTCTTCCGGGCTCTTGGCTTGGCTCATCTTAAGCGTGC 958
Db       13210 GAACGAGCGGACATGACTGCTGAGAGCGGGGTCAGCGTGC CGCGCGGTAGAGAGC
           |||||
QY      959 GCTCTGCCCGCTCGCTTCCGCTTCCGCGCTCACACTCAATACGAGCGCGCCCTTTCTG 1018
Db       13150 CCGGACCGCGGTCTTCAAGATTCTCCCGGCAAGCTCAAGAGAGTGGCCCTGCG 13091
           |||||
QY      1019 GGTTCAGCTGCGAACCGGGGTCTCTGTGCTCTTCTTCCGAGAGGGCCGTGATGTCCA 1078
Db       13090 CGAGTGGCTCGACATCTTGAAGCTCTCGGACGAGGCGTCTCGGCGCGGCGAGGCTG 13031
           |||||
QY      1079 GTATGTTCCGCCAGCGCTCTTGCACCTTCTGCACAAAGCGCAAGAATGTCAG 1135
Db       13030 GGC CGAGCTGACCGGTGACCGGCGCGCCGCTGCGCTCGGTACCGCGCCCTGCGG 12974
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RESULT 5
US-11-205-109-1
; Sequence 1, Application US/11205109
; Publication No. US20050287641AI
; GENERAL INFORMATION:
APPLICANT: Farnet, Chris
APPLICANT: Zazopoulos, Emmanuel
APPLICANT: Staffa, Alfredo
TITLE OF INVENTION: GENE CLUSTER FOR RAMOPLANIN BIOSYNTHESIS
FILE REFERENCE: 3002-2US
CURRENT APPLICATION NUMBER: US/11/205,109
CURRENT FILING DATE: 2005-08-17
PRIORITY APPLICATION NUMBER: US/09/976,059
PRIOR FILING DATE: 2001-10-15
PRIORITY APPLICATION NUMBER: US 60/239,924
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 88421
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TYPE: DNA
ORGANISM: Actinoplanes sp.
FEATURE:
NAME/KEY: misc feature
LOCATION: (2077)..(3078)
OTHER INFORMATION: ORF 1; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (3118)..(4032)
OTHER INFORMATION: ORF 2; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (4038)..(5048)
OTHER INFORMATION: ORF 3; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (6665)..(5814)
OTHER INFORMATION: ORF 4; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (7703)..(6693)
OTHER INFORMATION: ORF 5; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (9464)..(8130)
OTHER INFORMATION: ORF 6; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (9691)..(10761)
OTHER INFORMATION: ORF 7; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (12751)..(10829)
OTHER INFORMATION: ORF 8; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (13617)..(12802)
OTHER INFORMATION: ORF 9; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (15203)..(13614)
OTHER INFORMATION: ORF 10; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (15591)..(15863)
OTHER INFORMATION: ORF 11; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (15880)..(19035)
OTHER INFORMATION: ORF 12; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (19032)..(39713)
OTHER INFORMATION: ORF 13; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (39713)..(65800)
OTHER INFORMATION: ORF 14; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (65826)..(66530)
OTHER INFORMATION: ORF 15; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (66546)..(67370)
OTHER INFORMATION: ORF 16; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (67384)..(70059)
OTHER INFORMATION: ORF 17; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (70099)..(70662)

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OTHER INFORMATION: ORF 18; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (70659)..(71906)
OTHER INFORMATION: ORF 19; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (73439)..(71964)
OTHER INFORMATION: ORF 20; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (74216)..(73563)
OTHER INFORMATION: ORF 21; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (75424)..(74213)
OTHER INFORMATION: ORF 22; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (75335)..(76464)
OTHER INFORMATION: ORF 23; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (78110)..(76449)
OTHER INFORMATION: ORF 24; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (79864)..(78107)
OTHER INFORMATION: ORF 25; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (81674)..(79861)
OTHER INFORMATION: ORF 26; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (81909)..(81682)
OTHER INFORMATION: ORF 27; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (82346)..(82062)
OTHER INFORMATION: ORF 28; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (82587)..(84446)
OTHER INFORMATION: ORF 29; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (84481)..(85548)
OTHER INFORMATION: ORF 30; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (85556)..(86845)
OTHER INFORMATION: ORF 31; positive strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (87372)..(86803)
OTHER INFORMATION: ORF 32; negative strandedness
FEATURE:
NAME/KEY: misc feature
LOCATION: (87494)..(88420)
OTHER INFORMATION: ORF 33; positive strandedness; N-terminus only
US-11-205-109-1

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Query Match 2.9%; Score 41.8; DB 8; Length 88421;
 Best Local Similarity 50.8%; Pred. No. 2.2; 97; Indels 0; Gaps 0;
 Matches 100; Conservative 0; Mismatches

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OY 805 CCTGGGACGCTATGAGTGGCGCTTGTCTGCTCTCCACAGTGTGCTCTCA 864
DB 73052 CGTCGACGCCACGCGCGCGGCGTCTCCAGCAGATCTGTGAACCGCGCGCTCCA 73111
OY 865 CGCGGCGCGCGCTCTACGAGGCGCTTGGCACTGTGACACCGAGCGCTTGGCGCTTGG 924

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Db 73112 CCTGAAACGGGCGGAGTCCGCGGCATCCGGGGGAGGAGTGGCAAGTGAACGTCC 73171
Qy 925 GGGTCTTCCCTTGGCCTTCATATTAAGGTGCGGCTTGGCCGCTCCGCTTCCCT 984
Db 73172 ACGGCTCGGCTGAGTGGCCGCTTGAAGTGGCCGCTTGGCTTGGCAATGAACCCGCGCT 73231
Qy 985 CCGGCTGACCACTGAG 1001
Db 73232 TGGCAGTCTGTCGCCG 73248

RESULT 6

US-11-136-527-4440/c
; Sequence 4440, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US/11/136,527
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4440
; LENGTH: 1400
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4440

Query Match 2.9%; Score 41.6; DB 8; Length 1400;

Best Local Similarity 35.3%; Pred. No. 0.47;
Matches 77; Conservative 42; Mismatches 99; Indels 0; Gaps 0;

Qy 845 CTCGAACGTGCTCTCTCCAGCGCGGCGCTCTAGAGAGGCGCTGACAGTGAAC 904
Db 796 CTCRATCTKCKTKVKAAGAGCTGCTCMTCSYAGCASTYTSTCTKTKCTCTCT 737
Qy 905 CGAGCCTTCGCGCTCTTCCGGGGCTTCGCTTGGCCTTCATCTAGCGTCCGCTCTG 964
Db 736 CTCTATATYTKKGGTSTCTTSCCTTCWYCTCWCSDCKTCTYCKTKTKSMTSTT 677
Qy 965 CCGGCTCGGCTAGGCTCTCCGCGCTACCACTAGTACGCGCGCTTCTGGGTAC 1024
Db 676 CWRKCTCATYTTGDCAGCTSTYKCKCTCWCAGAYCTCTCTKCTCCCKSCTCTT 617
Qy 1025 GCTGGCAACGGGCTCTGTCCTCTCTCTCGAGGGG 1062
Db 616 TCTSKCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 579

RESULT 7

US-11-136-527-344/c
; Sequence 344, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US/11/136,527
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 344
; LENGTH: 2305
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-344

Query Match 2.9%; Score 41.6; DB 8; Length 2305;
Best Local Similarity 35.3%; Pred. No. 0.57;
Matches 77; Conservative 42; Mismatches 99; Indels 0; Gaps 0;

Qy 845 CTCGAACGTGCTCTCTCCAGCGCGGCGCTCTAGAGAGGCGCTGACAGTGAAC 904
Db 1701 CTCRATCTKCKTKVKAAGAGCTGCTCMTCSYAGCASTYTSTCTKTKCTCTCT 1642
Qy 905 CGAGCCTTCGCGCTCTTCCGGGGCTTCGCTTGGCCTTCATCTAGCGTCCGCTCTG 964
Db 1641 CTCTATATYTKKGGTSTCTTSCCTTCWYCTCWCSDCKTCTYCKTKTKSMTSTT 1582
Qy 965 CCGGCTCGGCTAGGCTCTCCGCGCTACCACTAGTACGCGCGCTTCTGGGTAC 1024
Db 1581 CWRKCTCATYTTGDCAGCTSTYKCKCTCWCAGAYCTCTCTKCTCCCKSCTCTT 1522
Qy 1025 GCTGGCAACGGGCTCTGTCCTCTCTCTCGAGGGG 1062
Db 1521 TCTSKCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1484

RESULT 8

US-10-995-561-13450
; Sequence 13450, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13450
; LENGTH: 12309
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13450

Query Match 2.9%; Score 41.6; DB 7; Length 12309;
Best Local Similarity 49.1%; Pred. No. 1.1;
Matches 107; Conservative 1; Mismatches 110; Indels 0; Gaps 0;

Qy 907 GAGCCTTCGCGCTCTTCCGGGGCTTCGCTTGGCCTTCATCTTAGCGTCCGCTTGC 966
Db 6026 GGGTCCCGGGCGCTCCGCAAGGTGGCTCGGCGCCGATCGCGGCTTCCCGCGGG 6085
Qy 967 CGCTCGGCTAGGCTCTCCGCGCTACCACTAGTACGCGCGCTTCTGGGTACGC 1026
Db 6086 CCTTCCCGGGAACGCGCGCTCCGCTGCGCGGCTCCGCGCCCGCGAGCGCTCG 6145
Qy 1027 TGGCAACGGGCTCTGTCCTCTTCTCGAGAGGCGCGTGAAGTCTCAGTATGTC 1086
Db 6146 CGCTCATCTGAGCCCGCGCTCCGCGCGCGCTCCGCGCGCTTCTTAAATGAGCC 6205
Qy 1087 GGGCCAGCGCTCTTGGCACTCTTCTGAGCAACCAAGCGCT 1124
Db 6206 CGGCGCGCGCGCGCGCGCTCCGCTCCCGCGCGCGCTCC 6243

RESULT 9

US-10-995-561-13273/c
; Sequence 13273, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559


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; TYPE: DNA
; ORGANISM: Bovine 19866880919140
US-10-750-623-29908

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Query Match 2.9%; Score 41; DB 7; Length 2432;
Best Local Similarity 47.2%; Pred. No. 0.84;
Matches 125; Conservative 0; Mismatches 140; Indels 0; Gaps 0;

[illegible]

RESULT 13
US-11-087-100-37/c
; Sequence 37, Application US/11087100
; Publication No. US20050266440A1
GENERAL INFORMATION:

```

1  APPLICANT: Metz, James
2  APPLICANT: Barclay, William
3  APPLICANT: Flatt, James
4  APPLICANT: Kuner, Jerry
5  TITLE OF INVENTION: Nucleic Acid Molecule Encoding ORFA of a PUFA Polyketide Synthase
6  FILE REFERENCE: 2997-29
7  CURRENT APPLICATION NUMBER: US/11/087,100
8  PRIOR APPLICATION NUMBER: 09/231,899
9  PRIOR FILING DATE: 1999-01-14
10 PRIOR APPLICATION NUMBER: 60/284,066
11 PRIOR FILING DATE: 2001-04-16
12 PRIOR APPLICATION NUMBER: 60/298,796
13 PRIOR FILING DATE: 2001-06-15
14 PRIOR APPLICATION NUMBER: 60/323,269
15 PRIOR FILING DATE: 2001-09-18
16 NUMBER OF SEQ ID NOS: 37
17 SOFTWARE: PatentIn version 3.3
18 SEQ ID NO 37
19 LENGTH: 3886
20 TYPE: DNA
21 ORGANISM: Schizochytrium sp.
22 FEATURE:
23 NAME/KEY: misc_feature
24 LOCATION: (2115)..(2115)
25 OTHER INFORMATION: n = a, c, g, or t
26 US-11-087-100-37

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	Query Match	2.9%;	Score 41;	DB 8;	Length 3886;	
	Best Local Similarity	52.0%;	Pred. No. 1;			
	Matches	92;	Conservative	0;	Mismatches 85;	Indels 0; Gaps 0
Oy	702	CTGAGAAAGGGCGTCGCCGACCAAGTGTCTTAACCTTGCCGAAGAATTACAACCAGATAC	761			
Dd	3850	CTGCATCTCTCTCTGCTGCTGCTGCTGCTGCTCTCTCTGTGATTCGCAAGCGGT	3793			
Oy	762	CCTTGGGCGCTTTACCAACAGTACCACTCTGGGGGACACTAAGCCTCGGCGCACGCTATGG	821			

Db 3790 ACTAGTATCTGGGGGCGGAGCTCGGCTGGCGGCGGAGCTCTGTGCTGTGATCTCG 3731

Qy 822 GTGGCGTTTGTGCTCTGGCTCTCTCCACAGTGTGCTCTCCAGCGCGGCGGCTC 878

Db 3730 ATTGGTTTGGCCCTCGGAGCTCCGGCGGCGGCTCCGCTCCCGACTCCGAGCCGCTGCTC 3674

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1 RESULT 14
2 US-11-087-084-37/c
3 ; Sequence 37, Application US/11087084
4 ; Publication No. US20050273883A1
5 ; GENERAL INFORMATION:
6 ; APPLICANT: Metz, James
7 ; APPLICANT: Barclay, William
8 ; APPLICANT: Platt, James
9 ; APPLICANT: Knerl, Jerry
10 ; TITLE OF INVENTION: Nucleic Acid Molecule Encoding ORF1 of a PUFA polyketide Synthase
11 ; TITLE OF INVENTION: System and Uses Thereof
12 ; FILE REFERENCE: 2997-29
13 ; CURRENT APPLICATION NUMBER: US/11/087,084
14 ; CURRENT FILING DATE: 2005-03-21
15 ; PRIOR APPLICATION NUMBER: 09/231,899
16 ; PRIOR FILING DATE: 1999-01-14
17 ; PRIOR APPLICATION NUMBER: 60/284,066
18 ; PRIOR FILING DATE: 2001-04-16
19 ; PRIOR APPLICATION NUMBER: 60/298,796
20 ; PRIOR FILING DATE: 2001-06-15
21 ; PRIOR APPLICATION NUMBER: 60/323,269
22 ; PRIOR FILING DATE: 2001-09-18
23 ; NUMBER OF SEQ ID NOS: 37
24 ; SOFTWARE: PatentIn version 3.3
25 ; SEQ ID NO 37
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Query Match	Score	Length
US-11-068-064-37	2.9%	3886
OTHER INFORMATION: n = a, c, g, or t		
LOCATION (2115)		
NAME/KEY: misc feature		
FEATURE:		

[illegible]

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RESULT 15
US-11-087-085-37/c
; Sequence 37, Application US/11087085
; Publication No. US20050273864A1
;
; GENERAL INFORMATION:
; APPLICANT: Metz, James
; APPLICANT: Barclay, William
; APPLICANT: Platt, James
; APPLICANT: Kneer, Jerry
;
; TITLE OF INVENTION: Nucleic Acid Molecule Encoding ORFA of a PUFA Polyketide Synthase
;
; FILE REFERENCE: 2997-29
;
; CURRENT APPLICATION NUMBER: US/11/087, 085
; CURRENT FILING DATE: 2005-03-21
; PRIOR APPLICATION NUMBER: 09/231, 899
;

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